Description

Initializes a new instance of the **System.Web.HttpUnhandledException** class with the specified error message and inner exception. The message displayed to the client when the exception is thrown. The **System.Exception.InnerException**, if any, that threw the current exception.

HttpUnhandledException

Example Syntax:

ToString

```
[C#] public HttpUnhandledException(string message, string postMessage, Exception innerException);
[C++] public: HttpUnhandledException(String* message, String* postMessage, Exception* innerException);
[VB] Public Sub New(ByVal message As String, ByVal postMessage As String, ByVal innerException As Exception)
[JScript] public function HttpUnhandledException(message : String, postMessage : String, innerException : Exception);
```

Description

Initializes a new instance of the **HttpUnhandledException** class with the specified error messages and inner exception. The message displayed to the client when the exception is thrown. An additional message displayed to the client when the exception is thrown. The **System.Exception.InnerException**, if any, that threw the current exception.

ErrorCode

HelpLink

HResult

InnerException

Message

Source

StackTrace

TargetSite

HttpUtility class (System.Web)

ToString

Description

Provides methods for encoding and decoding URLs when processing Web requests.

HttpUtility

Example Syntax:

ToString

```
[C#]                    public                      HttpUtility();
[C++]                   public:                     HttpUtility();
[VB]            Public                Sub                   New()
[JScript] public function HttpUtility();
```

HtmlAttributeEncode

[C#] public static string HtmlAttributeEncode(string s);
[C++] public: static String* HtmlAttributeEncode(String* s);
[VB] Public Shared Function HtmlAttributeEncode(ByVal s As String) As String
[JScript] public static function HtmlAttributeEncode(s : String) : String;
Minimally converts a string into an HTML-encoded string.

Description

Minimally converts a string to an HTML-encoded string. *Return Value:* The encoded string.

HtmlAttributeEncode converts only quotes (") and ampersands (&) to equivalent character entities. It is considerably faster than the **System.Web.HttpUtility.HtmlEncode(System.String)** methods. The string to encode.

HtmlAttributeEncode

[C#] public static void HtmlAttributeEncode(string s, TextWriter output);
[C++] public: static void HtmlAttributeEncode(String* s, TextWriter* output);
[VB] Public Shared Sub HtmlAttributeEncode(ByVal s As String, ByVal output As TextWriter)
[JScript] public static function HtmlAttributeEncode(s : String, output : TextWriter);

Description

Minimally converts a string into an HTML-encoded string and sends the encoded string to a **System.IO.TextWriter** output stream.

HtmlAttributeEncode converts only quotes (") and ampersands (&) to equivalent character entities. It is considerably faster than the **System.Web.HttpUtility.HtmlEncode(System.String)** methods. The string to encode A **System.IO.TextWriter** output stream.

HtmlDecode

[C#] public static string HtmlDecode(string s);
[C++] public: static String* HtmlDecode(String* s);
[VB] Public Shared Function HtmlDecode(ByVal s As String) As String
[JScript] public static function HtmlDecode(s : String) : String; Converts a string that has been HTML-encoded for HTTP transmission into a decoded string.

Description

Converts a string that has been HTML-encoded for HTTP transmission into a decoded string.

Return Value: The decoded string.

If characters such as blanks and punctuation are passed in an HTTP stream, they might be misinterpreted at the receiving end. HTML encoding converts characters that are not allowed in HTML into character-entity equivalents; HTML decoding reverses the encoding. For example, when embedded in a block of text, the characters < and >, are encoded as < and > for HTTP transmission. The string to decode.

HtmlDecode

[C#] public static void HtmlDecode(string s, TextWriter output);

[C++] public: static void HtmlDecode(String* s, TextWriter* output);

[VB] Public Shared Sub HtmlDecode(ByVal s As String, ByVal output As TextWriter)

[JScript] public static function HtmlDecode(s : String, output : TextWriter);

Description

Converts a string that has been HTML-encoded into a decoded string, and sends the decoded string to a **System.IO.TextWriter** output stream.

If characters such as blanks and punctuation are passed in an HTTP stream, they might be misinterpreted at the receiving end. HTML encoding converts characters that are not allowed in HTML into character-entity equivalents; HTML decoding reverses the encoding. For example, when embedded in a block of text, the characters < and >, are encoded as < and > for HTTP transmission. The string to decode. A **System.IO.TextWriter** stream of output.

HtmlEncode

[C#] public static string HtmlEncode(string s);

[C++] public: static String* HtmlEncode(String* s);

[VB] Public Shared Function HtmlEncode(ByVal s As String) As String

[JScript] public static function HtmlEncode(s : String) : String; Converts a string into an HTML-encoded string for reliable HTTP transmission from the Web server to a client.

Description

Converts a string to an HTML-encoded string for reliable HTTP transmission from the Web server to a client. *Return Value:* The encoded string.

If characters such as blanks and punctuation are passed in an HTTP stream, they might be misinterpreted at the receiving end. HTML encoding converts characters that are not allowed in HTML into character-entity equivalents; HTML decoding reverses the encoding. For example, when embedded in a block of text, the characters < and >, are encoded as < and > for HTTP transmission. The string to encode.

HtmlEncode

[C#] public static void HtmlEncode(string s, TextWriter output);
[C++] public: static void HtmlEncode(String* s, TextWriter* output);
[VB] Public Shared Sub HtmlEncode(ByVal s As String, ByVal output As TextWriter)
[JScript] public static function HtmlEncode(s : String, output : TextWriter);

Description

Converts a string into an HTML-encoded string, and returns the output as a TextWriter stream of output.

If characters such as blanks and punctuation are passed in an HTTP stream, they might be misinterpreted at the receiving end. HTML encoding converts characters that are not allowed in HTML into character-entity equivalents; HTML decoding reverses the encoding. For example, when embedded in a block of text, the characters < and >, are encoded as < and > for HTTP transmission. The string to encode A **System.IO.TextWriter** output stream.

UrlDecode

[C#] public static string UrlDecode(string str);
[C++] public: static String* UrlDecode(String* str);
[VB] Public Shared Function UrlDecode(ByVal str As String) As String
[JScript] public static function UrlDecode(str : String) : String; Converts a string that has been encoded for transmission in a URL into a decoded string.

Description

Converts a string that has been encoded for transmission in a URL into a decoded string.

Return Value: The decoded string.

If characters such as blanks and punctuation are passed in an HTTP stream, they might be misinterpreted at the receiving end. URL encoding converts characters that are not allowed in a URL into character-entity equivalents; URL decoding reverses the encoding. For example, when embedded in a block of text to be transmitted in a URL, the characters < and > are encoded as %3c and %3d. The string to decode.

UrlDecode

[C#] public static string UrlDecode(byte[] bytes, Encoding e);
[C++] public: static String* UrlDecode(unsigned char bytes __gc[], Encoding* e);

[VB] Public Shared Function UrlDecode(ByVal bytes() As Byte, ByVal e As Encoding) As String
[JScript] public static function UrlDecode(bytes : Byte[], e : Encoding) : String;

Description

Converts a URL-encoded byte array into a decoded string, using the specified decoding method.

Return Value: The decoded string.

If characters such as blanks and punctuation are passed in an HTTP stream, they might be misinterpreted at the receiving end. URL encoding converts characters that are not allowed in a URL into character-entity equivalents; URL decoding reverses the encoding. For example, when embedded in a block of text to be transmitted in a URL, the characters < and > are encoded as %3c and %3d. The byte array to decode. The **System.Text.Encoding** that specifies the decoding method.

UrlDecode

[C#] public static string UrlDecode(string str, Encoding e);
[C++] public: static String* UrlDecode(String* str, Encoding* e);
[VB] Public Shared Function UrlDecode(ByVal str As String, ByVal e As Encoding) As String
[JScript] public static function UrlDecode(str : String, e : Encoding) : String;

Description

Converts a URL-encoded string into a decoded string, using the specified decoding method.

Return Value: The decoded string.

If characters such as blanks and punctuation are passed in an HTTP stream, they might be misinterpreted at the receiving end. URL encoding converts characters that are not allowed in a URL into character-entity equivalents; URL decoding reverses the encoding. For example, when embedded in a block of text to be transmitted in a URL, the characters < and > are encoded as %3c and %3d. The string to decode. The **System.Text.Encoding** that specifies the decoding method.

UrlDecode

[C#] public static string UrlDecode(byte[] bytes, int offset, int count, Encoding e);

[C++] public: static String* UrlDecode(unsigned char bytes __gc[], int offset, int count, Encoding* e);

[VB] Public Shared Function UrlDecode(ByVal bytes() As Byte, ByVal offset As Integer, ByVal count As Integer, ByVal e As Encoding) As String

[JScript] public static function UrlDecode(bytes : Byte[], offset : int, count : int, e : Encoding) : String;

Description

Converts a URL-encoded byte array into a decoded string, using the specified decoding method, starting at the specified position in the array, and continuing for the specified number of bytes.

Return Value: The decoded string.

If characters such as blanks and punctuation are passed in an HTTP stream, they might be misinterpreted at the receiving end. URL encoding converts characters that are not allowed in a URL into character-entity equivalents; URL decoding reverses the encoding. For example, when embedded in a block of text to be transmitted in a URL, the characters < and > are encoded as %3c and %3d. The array of bytes to decode. The position in the byte to begin decoding. The number of bytes to decode starting at *offset*. The **System.Text.Encoding** object that specifies the decoding method.

UrlDecodeToBytes

[C#] public static byte[] UrlDecodeToBytes(byte[] bytes);
[C++] public: static unsigned char UrlDecodeToBytes(unsigned char bytes __gc[]) __gc[];
[VB] Public Shared Function UrlDecodeToBytes(ByVal bytes() As Byte) As Byte()
[JScript] public static function UrlDecodeToBytes(bytes : Byte[]) : Byte[];

Description

Converts a URL-encoded arrray of bytes into a decoded array of bytes. *Return Value:* The decoded array of bytes.

If characters such as blanks and punctuation are passed in an HTTP stream, they might be misinterpreted at the receiving end. URL encoding converts characters that are not allowed in a URL into character-entity equivalents; URL decoding reverses the encoding. For example, when embedded in a block of text to be transmitted in a URL, the characters < and > are encoded as %3c and %3d. The array of bytes to decode.

UrlDecodeToBytes

[C#] public static byte[] UrlDecodeToBytes(string str);
[C++] public: static unsigned char UrlDecodeToBytes(String* str) __gc[];
[VB] Public Shared Function UrlDecodeToBytes(ByVal str As String) As Byte()
[JScript] public static function UrlDecodeToBytes(str : String) : Byte[]; Converts a URL-encoded string or byte array into a decoded array of bytes.

Description

Converts a URL-encoded string into a decoded array of bytes . *Return Value:* The decoded array of bytes.

If characters such as blanks and punctuation are passed in an HTTP stream, they might be misinterpreted at the receiving end. URL encoding converts characters that are not allowed in a URL into character-entity equivalents; URL decoding reverses the encoding. For example, when embedded in a block of text to be transmitted in a URL, the characters < and > are encoded as %3c and %3d. The string to decode.

UrlDecodeToBytes

[C#] public static byte[] UrlDecodeToBytes(string str, Encoding e);
[C++] public: static unsigned char UrlDecodeToBytes(String* str, Encoding* e) __gc[];
[VB] Public Shared Function UrlDecodeToBytes(ByVal str As String, ByVal e As

Encoding) As Byte()

[JScript] public static function UrlDecodeToBytes(str : String, e : Encoding) : Byte[];

Description

Converts a URL-encoded string into a decoded array of bytes, using the specified decoding method.

Return Value: The decoded array of bytes.

If characters such as blanks and punctuation are passed in an HTTP stream, they might be misinterpreted at the receiving end. URL encoding converts characters that are not allowed in a URL into character-entity equivalents; URL decoding reverses the encoding. For example, when embedded in a block of text to be transmitted in a URL, the characters < and > are encoded as %3c and %3d. The string to decode. The **System.Text.Encoding** object that specifies the decoding method.

UrlDecodeToBytes

[C#] public static byte[] UrlDecodeToBytes(byte[] bytes, int offset, int count);

[C++] public: static unsigned char UrlDecodeToBytes(unsigned char bytes __gc[], int offset, int count) __gc[];

[VB] Public Shared Function UrlDecodeToBytes(ByVal bytes() As Byte, ByVal offset As Integer, ByVal count As Integer) As Byte()

[JScript] public static function UrlDecodeToBytes(bytes : Byte[], offset : int, count : int) : Byte[];

Description

Converts a URL-encoded arrray of bytes into a decoded array of bytes, starting at the specified position in the array and continuing for the specified number of bytes.

Return Value: The decoded array of bytes.

If characters such as blanks and punctuation are passed in an HTTP stream, they might be misinterpreted at the receiving end. URL encoding converts characters that are not allowed in a URL into character-entity equivalents; URL decoding reverses the encoding. For example, when embedded in a block of text to be transmitted in a URL, the characters < and > are encoded as %3c and %3d. The array of bytes to decode. The position in the byte array to begin decoding. The number of bytes to decode, starting at *offset.*

UrlEncode

```
[C#] public static string UrlEncode(byte[] bytes);
[C++] public: static String* UrlEncode(unsigned char bytes __gc[]);
[VB] Public Shared Function UrlEncode(ByVal bytes() As Byte) As String
[JScript] public static function UrlEncode(bytes : Byte[]) : String;
```

Description

Converts a byte array into an encoded URL string for reliable HTTP transmission from the Web server to a client.

Return Value: The encoded string.

If characters such as blanks and punctuation are passed in an HTTP stream, they might be misinterpreted at the receiving end. URL encoding converts characters that are not allowed in a URL into character-entity equivalents; URL decoding reverses the encoding. For example, when embedded in a block of text to be transmitted in a URL, the characters < and > are encoded as %3c and %3d. The byte array to encode.

UrlEncode

[C#] public static string UrlEncode(string str);
[C++] public: static String* UrlEncode(String* str);
[VB] Public Shared Function UrlEncode(ByVal str As String) As String
[JScript] public static function UrlEncode(str : String) : String; Encodes a URL string for reliable HTTP transmission from the Web server to a client.

Description

Encodes a URL string for reliable HTTP transmission from the Web server to a client.

Return Value: The encoded string.

If characters such as blanks and punctuation are passed in an HTTP stream, they might be misinterpreted at the receiving end. URL encoding converts characters that are not allowed in a URL into character-entity equivalents; URL decoding reverses the encoding. For example, when embedded in a block of text to be transmitted in a URL, the characters < and > are encoded as %3c and %3d. The text to encode.

UrlEncode

[C#] public static string UrlEncode(string str, Encoding e);

[C++] public: static String* UrlEncode(String* str, Encoding* e);

[VB] Public Shared Function UrlEncode(ByVal str As String, ByVal e As Encoding) As String

[JScript] public static function UrlEncode(str : String, e : Encoding) : String;

Description

Encodes a URL string for reliable HTTP transmission from the Web server to a client, using the specified encoding method. *Return Value:* The encoded string.

If characters such as blanks and punctuation are passed in an HTTP stream, they might be misinterpreted at the receiving end. URL encoding converts characters that are not allowed in a URL into character-entity equivalents; URL decoding reverses the encoding. For example, when embedded in a block of text to be transmitted in a URL, the characters < and > are encoded as %3c and %3d. The text to encode. The **System.Text.Encoding** object that specifies the encoding scheme.

UrlEncode

[C#] public static string UrlEncode(byte[] bytes, int offset, int count);

[C++] public: static String* UrlEncode(unsigned char bytes __gc[], int offset, int count);

[VB] Public Shared Function UrlEncode(ByVal bytes() As Byte, ByVal offset As Integer, ByVal count As Integer) As String

[JScript] public static function UrlEncode(bytes : Byte[], offset : int, count : int) : String;

Description

Converts a byte array into a URL-encoded string for reliable HTTP transmission from the Web server to a client, starting at the specified position in the array and continuing for the specified number of bytes. *Return Value:* The encoded string.

If characters such as blanks and punctuation are passed in an HTTP stream, they might be misinterpreted at the receiving end. URL encoding converts characters that are not allowed in a URL into character-entity equivalents; URL decoding reverses the encoding. For example, when embedded in a block of text to be transmitted in a URL, the characters < and > are encoded as %3c and %3d. The byte array to encode. The position in the byte array to begin encoding. The number of bytes to encode, starting at *offset.*

UrlEncodeToBytes

[C#] public static byte[] UrlEncodeToBytes(byte[] bytes);
[C++] public: static unsigned char UrlEncodeToBytes(unsigned char bytes __gc[]) __gc[];
[VB] Public Shared Function UrlEncodeToBytes(ByVal bytes() As Byte) As Byte()
[JScript] public static function UrlEncodeToBytes(bytes : Byte[]) : Byte[];

Description

Converts an array of bytes into a URL-encoded array of bytes. *Return Value:* The encoded array of bytes.

If characters such as blanks and punctuation are passed in an HTTP stream, they might be misinterpreted at the receiving end. URL encoding converts characters that are not allowed in a URL into character-entity equivalents; URL decoding reverses the encoding. For example, when embedded in a block of text to be transmitted in a URL, the characters < and > are encoded as %3c and %3d. The array of bytes to encode.

UrlEncodeToBytes

[C#] public static byte[] UrlEncodeToBytes(string str); [C++] public: static unsigned char UrlEncodeToBytes(String* str) __gc[]; [VB] Public Shared Function UrlEncodeToBytes(ByVal str As String) As Byte() [JScript] public static function UrlEncodeToBytes(str : String) : Byte[]; Converts a string or a byte array into an encoded array of bytes for reliable HTTP transmission from the Web server to a client.

Description

Converts a string into a URL-encoded array of bytes . *Return Value:* The encoded array of bytes.

If characters such as blanks and punctuation are passed in an HTTP stream, they might be misinterpreted at the receiving end. URL encoding converts characters that are not allowed in a URL into character-entity equivalents; URL decoding reverses the encoding. For example, when embedded in a block of text to be transmitted in a URL, the characters < and > are encoded as %3c and %3d. The string to encode.

UrlEncodeToBytes

[C#] public static byte[] UrlEncodeToBytes(string str, Encoding e);
[C++] public: static unsigned char UrlEncodeToBytes(String* str, Encoding* e) __gc[];
[VB] Public Shared Function UrlEncodeToBytes(ByVal str As String, ByVal e As Encoding) As Byte()
[JScript] public static function UrlEncodeToBytes(str : String, e : Encoding) : Byte[];

Description

Converts a string into a URL-encoded array of bytes, using the specified encoding method.

Return Value: The encoded array of bytes.

If characters such as blanks and punctuation are passed in an HTTP stream, they might be misinterpreted at the receiving end. URL encoding converts characters that are not allowed in a URL into character-entity equivalents; URL decoding reverses the encoding. For example, when embedded in a block of text to be transmitted in a URL, the characters < and > are encoded as %3c and %3d. The string to encode The **System.Text.Encoding** that specifies the encoding method.

UrlEncodeToBytes

[C#] public static byte[] UrlEncodeToBytes(byte[] bytes, int offset, int count);

[C++] public: static unsigned char UrlEncodeToBytes(unsigned char bytes __gc[], int offset, int count) __gc[];

[VB] Public Shared Function UrlEncodeToBytes(ByVal bytes() As Byte, ByVal offset As Integer, ByVal count As Integer) As Byte()

[JScript] public static function UrlEncodeToBytes(bytes : Byte[], offset : int, count : int) : Byte[];

Description

Converts an array of bytes into a URL-encoded array of bytes, starting at the specified position in the array and continuing for the specified number of bytes.

Return Value: The encoded array of bytes.

If characters such as blanks and punctuation are passed in an HTTP stream, they might be misinterpreted at the receiving end. URL encoding converts characters that are not allowed in a URL into character-entity equivalents; URL decoding reverses the encoding. For example, when embedded in a block of text to be transmitted in a URL, the characters < and > are encoded as %3c and %3d. The array of bytes to encode. The position in the byte array to begin encoding. The number of bytes to encode, starting at *offset.*

UrlEncodeUnicode

[C#] public static string UrlEncodeUnicode(string str);

[C++] public: static String* UrlEncodeUnicode(String* str);

[VB] Public Shared Function UrlEncodeUnicode(ByVal str As String) As String

[JScript] public static function UrlEncodeUnicode(str : String) : String;

Description

Converts a string into a Unicode string. *Return Value:* The Unicode string.

If characters such as blanks and punctuation are passed in an HTTP stream, they might be misinterpreted at the receiving end. URL encoding converts characters that are not legal in a URL to character-entity equivalents; URL decoding reverses the encoding. For example, when embedded in a block of text to be transmitted in a URL, the characters < and > are encoded as %3c and %3d. The string to convert.

UrlEncodeUnicodeToBytes

```
[C#] public static byte[] UrlEncodeUnicodeToBytes(string str);
[C++] public: static unsigned char UrlEncodeUnicodeToBytes(String* str) __gc[];
[VB] Public Shared Function UrlEncodeUnicodeToBytes(ByVal str As String) As
Byte()
[JScript] public static function UrlEncodeUnicodeToBytes(str : String) : Byte[];
```

Description

Converts a string into a Unicode array of bytes. *Return Value:* The Unicode byte array.

If characters such as blanks and punctuation are passed in an HTTP stream, they might be misinterpreted at the receiving end. URL encoding converts characters that are not legal in a URL to character-entity equivalents; URL decoding reverses the encoding. For example, when embedded in a block of text to be transmitted in a URL, the characters < and > are encoded as %3c and %3d. The string to convert.

HttpValidationStatus enumeration (System.Web)

UrlEncodeUnicodeToBytes

Description

Provides enumerated values that indicate cache validation status.

UrlEncodeUnicodeToBytes

```
[C#] public const HttpValidationStatus IgnoreThisRequest;
[C++] public: const HttpValidationStatus IgnoreThisRequest;
[VB] Public Const IgnoreThisRequest As HttpValidationStatus
[JScript] public var IgnoreThisRequest : HttpValidationStatus;
```

Description

Specifies not to validate the entity in the cache.

UrlEncodeUnicodeToBytes

```
[C#] public const HttpValidationStatus Invalid;
[C++] public: const HttpValidationStatus Invalid;
[VB] Public Const Invalid As HttpValidationStatus
[JScript] public var Invalid : HttpValidationStatus;
```

Description

Indicates that the cache is invalid.

UrlEncodeUnicodeToBytes

[C#] public const HttpValidationStatus Valid;

[C++] public: const HttpValidationStatus Valid;

[VB] Public Const Valid As HttpValidationStatus

[JScript] public var Valid : HttpValidationStatus;

Description

Indicates that the cache is valid.

HttpWorkerRequest class (System.Web)

ToString

Description

This abstract class defines the base worker methods and enumerations used by ASP.NET managed code for request processing.

ToString

[C#] public const int HeaderAccept;

[C++] public: const int HeaderAccept;

[VB] Public Const HeaderAccept As Integer

[JScript] public var HeaderAccept : int;

Description

ToString

```
[C#] public const int HeaderAcceptCharset;
[C++] public: const int HeaderAcceptCharset;
[VB] Public Const HeaderAcceptCharset As Integer
[JScript] public var HeaderAcceptCharset : int;
```

Description

ToString

```
[C#] public const int HeaderAcceptEncoding;
[C++] public: const int HeaderAcceptEncoding;
[VB] Public Const HeaderAcceptEncoding As Integer
[JScript] public var HeaderAcceptEncoding : int;
```

Description

ToString

```
[C#] public const int HeaderAcceptLanguage;
[C++] public: const int HeaderAcceptLanguage;
[VB] Public Const HeaderAcceptLanguage As Integer
[JScript] public var HeaderAcceptLanguage : int;
```

Description

ToString

```
[C#] public const int HeaderAcceptRanges;
[C++] public: const int HeaderAcceptRanges;
[VB] Public Const HeaderAcceptRanges As Integer
[JScript] public var HeaderAcceptRanges : int;
```

Description

ToString

```
[C#] public const int HeaderAge;
[C++] public: const int HeaderAge;
[VB] Public Const HeaderAge As Integer
[JScript] public var HeaderAge : int;
```

Description

ToString

```
[C#] public const int HeaderAllow;
[C++] public: const int HeaderAllow;
```

```
[VB] Public Const HeaderAllow As Integer
[JScript] public var HeaderAllow : int;
```

Description

ToString

```
[C#] public const int HeaderAuthorization;
[C++] public: const int HeaderAuthorization;
[VB] Public Const HeaderAuthorization As Integer
[JScript] public var HeaderAuthorization : int;
```

Description

ToString

```
[C#] public const int HeaderCacheControl;
[C++] public: const int HeaderCacheControl;
[VB] Public Const HeaderCacheControl As Integer
[JScript] public var HeaderCacheControl : int;
```

Description

ToString

```
[C#] public const int HeaderConnection;
[C++] public: const int HeaderConnection;
[VB] Public Const HeaderConnection As Integer
[JScript] public var HeaderConnection : int;
```

Description

ToString

```
[C#] public const int HeaderContentEncoding;
[C++] public: const int HeaderContentEncoding;
[VB] Public Const HeaderContentEncoding As Integer
[JScript] public var HeaderContentEncoding : int;
```

Description

ToString

```
[C#] public const int HeaderContentLanguage;
[C++] public: const int HeaderContentLanguage;
[VB] Public Const HeaderContentLanguage As Integer
[JScript] public var HeaderContentLanguage : int;
```

Description

ToString

```
[C#] public const int HeaderContentLength;
[C++] public: const int HeaderContentLength;
[VB] Public Const HeaderContentLength As Integer
[JScript] public var HeaderContentLength : int;
```

Description

ToString

```
[C#] public const int HeaderContentLocation;
[C++] public: const int HeaderContentLocation;
[VB] Public Const HeaderContentLocation As Integer
[JScript] public var HeaderContentLocation : int;
```

Description

ToString

```
[C#] public const int HeaderContentMd5;
[C++] public: const int HeaderContentMd5;
[VB] Public Const HeaderContentMd5 As Integer
[JScript] public var HeaderContentMd5 : int;
```

Description

ToString

```
[C#] public const int HeaderContentRange;
[C++] public: const int HeaderContentRange;
[VB] Public Const HeaderContentRange As Integer
[JScript] public var HeaderContentRange : int;
```

Description

ToString

```
[C#] public const int HeaderContentType;
[C++] public: const int HeaderContentType;
[VB] Public Const HeaderContentType As Integer
[JScript] public var HeaderContentType : int;
```

Description

ToString

```
[C#] public const int HeaderCookie;
[C++] public: const int HeaderCookie;
```

```
[VB] Public Const HeaderCookie As Integer
[JScript] public var HeaderCookie : int;
```

Description

ToString

```
[C#] public const int HeaderDate;
[C++] public: const int HeaderDate;
[VB] Public Const HeaderDate As Integer
[JScript] public var HeaderDate : int;
```

Description

ToString

```
[C#] public const int HeaderEtag;
[C++] public: const int HeaderEtag;
[VB] Public Const HeaderEtag As Integer
[JScript] public var HeaderEtag : int;
```

Description

ToString

```
[C#] public const int HeaderExpect;
[C++] public: const int HeaderExpect;
[VB] Public Const HeaderExpect As Integer
[JScript] public var HeaderExpect : int;
```

Description

ToString

```
[C#] public const int HeaderExpires;
[C++] public: const int HeaderExpires;
[VB] Public Const HeaderExpires As Integer
[JScript] public var HeaderExpires : int;
```

Description

ToString

```
[C#] public const int HeaderFrom;
[C++] public: const int HeaderFrom;
[VB] Public Const HeaderFrom As Integer
[JScript] public var HeaderFrom : int;
```

Description

ToString

```
[C#] public const int HeaderHost;
[C++] public: const int HeaderHost;
[VB] Public Const HeaderHost As Integer
[JScript] public var HeaderHost : int;
```

Description

ToString

```
[C#] public const int HeaderIfMatch;
[C++] public: const int HeaderIfMatch;
[VB] Public Const HeaderIfMatch As Integer
[JScript] public var HeaderIfMatch : int;
```

Description

ToString

```
[C#] public const int HeaderIfModifiedSince;
[C++] public: const int HeaderIfModifiedSince;
[VB] Public Const HeaderIfModifiedSince As Integer
[JScript] public var HeaderIfModifiedSince : int;
```

Description

ToString

```
[C#] public const int HeaderIfNoneMatch;
[C++] public: const int HeaderIfNoneMatch;
[VB] Public Const HeaderIfNoneMatch As Integer
[JScript] public var HeaderIfNoneMatch : int;
```

Description

ToString

```
[C#] public const int HeaderIfRange;
[C++] public: const int HeaderIfRange;
[VB] Public Const HeaderIfRange As Integer
[JScript] public var HeaderIfRange : int;
```

Description

ToString

```
[C#] public const int HeaderIfUnmodifiedSince;
[C++] public: const int HeaderIfUnmodifiedSince;
```

```
[VB] Public Const HeaderIfUnmodifiedSince As Integer
[JScript] public var HeaderIfUnmodifiedSince : int;
```

Description

ToString

```
[C#] public const int HeaderKeepAlive;
[C++] public: const int HeaderKeepAlive;
[VB] Public Const HeaderKeepAlive As Integer
[JScript] public var HeaderKeepAlive : int;
```

Description

ToString

```
[C#] public const int HeaderLastModified;
[C++] public: const int HeaderLastModified;
[VB] Public Const HeaderLastModified As Integer
[JScript] public var HeaderLastModified : int;
```

Description

ToString

[C#] public const int HeaderLocation;

[C++] public: const int HeaderLocation;

[VB] Public Const HeaderLocation As Integer

[JScript] public var HeaderLocation : int;

Description

ToString

[C#] public const int HeaderMaxForwards;

[C++] public: const int HeaderMaxForwards;

[VB] Public Const HeaderMaxForwards As Integer

[JScript] public var HeaderMaxForwards : int;

Description

ToString

[C#] public const int HeaderPragma;

[C++] public: const int HeaderPragma;

[VB] Public Const HeaderPragma As Integer

[JScript] public var HeaderPragma : int;

Description

ToString

[C#] public const int HeaderProxyAuthenticate;

[C++] public: const int HeaderProxyAuthenticate;

[VB] Public Const HeaderProxyAuthenticate As Integer

[JScript] public var HeaderProxyAuthenticate : int;

Description

ToString

[C#] public const int HeaderProxyAuthorization;

[C++] public: const int HeaderProxyAuthorization;

[VB] Public Const HeaderProxyAuthorization As Integer

[JScript] public var HeaderProxyAuthorization : int;

Description

ToString

[C#] public const int HeaderRange;

[C++] public: const int HeaderRange;

[VB] Public Const HeaderRange As Integer

[JScript] public var HeaderRange : int;

Description

ToString

```
[C#] public const int HeaderReferer;
[C++] public: const int HeaderReferer;
[VB] Public Const HeaderReferer As Integer
[JScript] public var HeaderReferer : int;
```

Description

ToString

```
[C#] public const int HeaderRetryAfter;
[C++] public: const int HeaderRetryAfter;
[VB] Public Const HeaderRetryAfter As Integer
[JScript] public var HeaderRetryAfter : int;
```

Description

ToString

```
[C#] public const int HeaderServer;
[C++] public: const int HeaderServer;
```

```
[VB] Public Const HeaderServer As Integer
[JScript] public var HeaderServer : int;
```

Description

ToString

```
[C#] public const int HeaderSetCookie;
[C++] public: const int HeaderSetCookie;
[VB] Public Const HeaderSetCookie As Integer
[JScript] public var HeaderSetCookie : int;
```

Description

ToString

```
[C#] public const int HeaderTe;
[C++] public: const int HeaderTe;
[VB] Public Const HeaderTe As Integer
[JScript] public var HeaderTe : int;
```

Description

```
[C#] public const int HeaderTrailer;
[C++] public: const int HeaderTrailer;
[VB] Public Const HeaderTrailer As Integer
[JScript] public var HeaderTrailer : int;
```

Description

ToString

```
[C#] public const int HeaderTransferEncoding;
[C++] public: const int HeaderTransferEncoding;
[VB] Public Const HeaderTransferEncoding As Integer
[JScript] public var HeaderTransferEncoding : int;
```

Description

ToString

```
[C#] public const int HeaderUpgrade;
[C++] public: const int HeaderUpgrade;
[VB] Public Const HeaderUpgrade As Integer
[JScript] public var HeaderUpgrade : int;
```

Description

ToString

```
[C#] public const int HeaderUserAgent;
[C++] public: const int HeaderUserAgent;
[VB] Public Const HeaderUserAgent As Integer
[JScript] public var HeaderUserAgent : int;
```

Description

ToString

```
[C#] public const int HeaderVary;
[C++] public: const int HeaderVary;
[VB] Public Const HeaderVary As Integer
[JScript] public var HeaderVary : int;
```

Description

ToString

```
[C#] public const int HeaderVia;
[C++] public: const int HeaderVia;
[VB] Public Const HeaderVia As Integer
[JScript] public var HeaderVia : int;
```

Description

ToString

```
[C#] public const int HeaderWarning;
[C++] public: const int HeaderWarning;
[VB] Public Const HeaderWarning As Integer
[JScript] public var HeaderWarning : int;
```

Description

ToString

```
[C#] public const int HeaderWwwAuthenticate;
[C++] public: const int HeaderWwwAuthenticate;
[VB] Public Const HeaderWwwAuthenticate As Integer
[JScript] public var HeaderWwwAuthenticate : int;
```

Description

ToString

```
[C#] public const int ReasonCachePolicy;
[C++] public: const int ReasonCachePolicy;
```

[VB] Public Const ReasonCachePolicy As Integer
[JScript] public var ReasonCachePolicy : int;

Description

ToString

[C#] public const int ReasonCacheSecurity;
[C++] public: const int ReasonCacheSecurity;
[VB] Public Const ReasonCacheSecurity As Integer
[JScript] public var ReasonCacheSecurity : int;

Description

ToString

[C#] public const int ReasonClientDisconnect;
[C++] public: const int ReasonClientDisconnect;
[VB] Public Const ReasonClientDisconnect As Integer
[JScript] public var ReasonClientDisconnect : int;

Description

ToString

```
[C#] public const int ReasonDefault;
[C++] public: const int ReasonDefault;
[VB] Public Const ReasonDefault As Integer
[JScript] public var ReasonDefault : int;
```

Description

ToString

```
[C#] public const int ReasonFileHandleCacheMiss;
[C++] public: const int ReasonFileHandleCacheMiss;
[VB] Public Const ReasonFileHandleCacheMiss As Integer
[JScript] public var ReasonFileHandleCacheMiss : int;
```

Description

ToString

```
[C#] public const int ReasonResponseCacheMiss;
[C++] public: const int ReasonResponseCacheMiss;
[VB] Public Const ReasonResponseCacheMiss As Integer
[JScript] public var ReasonResponseCacheMiss : int;
```

Description

ToString

```
[C#] public const int RequestHeaderMaximum;
[C++] public: const int RequestHeaderMaximum;
[VB] Public Const RequestHeaderMaximum As Integer
[JScript] public var RequestHeaderMaximum : int;
```

Description

ToString

```
[C#] public const int ResponseHeaderMaximum;
[C++] public: const int ResponseHeaderMaximum;
[VB] Public Const ResponseHeaderMaximum As Integer
[JScript] public var ResponseHeaderMaximum : int;
```

Description

HttpWorkerRequest

Example Syntax:

ToString

```
[C#] protected HttpWorkerRequest();
[C++] protected: HttpWorkerRequest();
```

```
[VB] Protected Sub New()
[JScript] protected function HttpWorkerRequest();
```

MachineConfigPath

ToString

```
[C#] public virtual string MachineConfigPath {get;}
[C++] public: __property virtual String* get_MachineConfigPath();
[VB] Overridable Public ReadOnly Property MachineConfigPath As String
[JScript] public function get MachineConfigPath() : String;
```

Description

MachineInstallDirectory

ToString

```
[C#] public virtual string MachineInstallDirectory {get;}
[C++] public: __property virtual String* get_MachineInstallDirectory();
[VB] Overridable Public ReadOnly Property MachineInstallDirectory As String
[JScript] public function get MachineInstallDirectory() : String;
```

Description

CloseConnection

```
[C#] public virtual void CloseConnection();
```

```
[C++] public: virtual void CloseConnection();
[VB] Overridable Public Sub CloseConnection()
[JScript] public function CloseConnection();
```

Description

EndOfRequest

```
[C#] public abstract void EndOfRequest();
[C++] public: virtual void EndOfRequest() = 0;
[VB] MustOverride Public Sub EndOfRequest()
[JScript] public abstract function EndOfRequest();
```

Description

FlushResponse

```
[C#] public abstract void FlushResponse(bool finalFlush);
[C++] public: virtual void FlushResponse(bool finalFlush) = 0;
[VB] MustOverride Public Sub FlushResponse(ByVal finalFlush As Boolean)
[JScript] public abstract function FlushResponse(finalFlush : Boolean);
```

Description

GetAppPath

```
[C#] public virtual string GetAppPath();
[C++] public: virtual String* GetAppPath();
[VB] Overridable Public Function GetAppPath() As String
[JScript] public function GetAppPath() : String;
```

Description

When overridden in a derived class, returns the virtual path to the currently executing server application.

Return Value: The virtual path of the current application.

GetAppPathTranslated

```
[C#] public virtual string GetAppPathTranslated();
[C++] public: virtual String* GetAppPathTranslated();
[VB] Overridable Public Function GetAppPathTranslated() As String
[JScript] public function GetAppPathTranslated() : String;
```

Description

When overridden in a derived class, returns the UNC-translated path to the currently executing server application.

Return Value: The UNC physical path of the current application.

GetAppPoolID

```
[C#] public virtual string GetAppPoolID();
[C++] public: virtual String* GetAppPoolID();
```

[VB] Overridable Public Function GetAppPoolID() As String

[JScript] public function GetAppPoolID() : String;

Description

When overridden in a derived class, returns the application pool ID for the current URL.

Return Value: Always returns null.

GetBytesRead

[C#] public virtual long GetBytesRead();

[C++] public: virtual __int64 GetBytesRead();

[VB] Overridable Public Function GetBytesRead() As Long

[JScript] public function GetBytesRead() : long;

Description

GetClientCertificate

[C#] public virtual byte[] GetClientCertificate();

[C++] public: virtual unsigned char GetClientCertificate() __gc[];

[VB] Overridable Public Function GetClientCertificate() As Byte()

[JScript] public function GetClientCertificate() : Byte[];

Description

Defines the base worker class used by ASP.NET managed code for request processing.

GetClientCertificateBinaryIssuer

```
[C#] public virtual byte[] GetClientCertificateBinaryIssuer();
[C++] public: virtual unsigned char GetClientCertificateBinaryIssuer() __gc[];
[VB] Overridable Public Function GetClientCertificateBinaryIssuer() As Byte()
[JScript] public function GetClientCertificateBinaryIssuer() : Byte[];
```

Description

GetClientCertificateEncoding

```
[C#] public virtual int GetClientCertificateEncoding();
[C++] public: virtual int GetClientCertificateEncoding();
[VB] Overridable Public Function GetClientCertificateEncoding() As Integer
[JScript] public function GetClientCertificateEncoding() : int;
```

Description

GetClientCertificatePublicKey

```
[C#] public virtual byte[] GetClientCertificatePublicKey();
[C++] public: virtual unsigned char GetClientCertificatePublicKey() __gc[];
[VB] Overridable Public Function GetClientCertificatePublicKey() As Byte()
```

[JScript] public function GetClientCertificatePublicKey() : Byte[];

Description

GetClientCertificateValidFrom

[C#] public virtual DateTime GetClientCertificateValidFrom();

[C++] public: virtual DateTime GetClientCertificateValidFrom();

[VB] Overridable Public Function GetClientCertificateValidFrom() As DateTime

[JScript] public function GetClientCertificateValidFrom() : DateTime;

Description

GetClientCertificateValidUntil

[C#] public virtual DateTime GetClientCertificateValidUntil();

[C++] public: virtual DateTime GetClientCertificateValidUntil();

[VB] Overridable Public Function GetClientCertificateValidUntil() As DateTime

[JScript] public function GetClientCertificateValidUntil() : DateTime;

Description

GetConnectionID

[C#] public virtual long GetConnectionID();

```
[C++] public: virtual __int64 GetConnectionID();
[VB] Overridable Public Function GetConnectionID() As Long
[JScript] public function GetConnectionID() : long;
```

Description

When overridden in a derived class, returns the ID of the current connection.

Return Value: Always returns 0.

GetFilePath

```
[C#] public virtual string GetFilePath();
[C++] public: virtual String* GetFilePath();
[VB] Overridable Public Function GetFilePath() As String
[JScript] public function GetFilePath() : String;
```

Description

When overridden in a derived class, returns the physical path to the requested URI.

Return Value: The path to the URI.

GetFilePathTranslated

```
[C#] public virtual string GetFilePathTranslated();
[C++] public: virtual String* GetFilePathTranslated();
[VB] Overridable Public Function GetFilePathTranslated() As String
[JScript] public function GetFilePathTranslated() : String;
```

Description

When overridden in a derived class, returns the translated file path to the requested URI (from virtual path to UNC path, ie "/proj1/page.aspx" to "c:\dir\page.aspx")

Return Value: The translated file path.

GetHttpVerbName

```
[C#] public abstract string GetHttpVerbName();
[C++] public: virtual String* GetHttpVerbName() = 0;
[VB] MustOverride Public Function GetHttpVerbName() As String
[JScript] public abstract function GetHttpVerbName() : String;
```

Description

Provides access to the specified member of the request header.

Return Value: The HTTP verb returned in the request header.

GetHttpVersion

```
[C#] public abstract string GetHttpVersion();
[C++] public: virtual String* GetHttpVersion() = 0;
[VB] MustOverride Public Function GetHttpVersion() As String
[JScript] public abstract function GetHttpVersion() : String;
```

Description

Provides access to the specified member of the request header.
Return Value: The HTTP version returned in the request header.

GetKnownRequestHeader

[C#] public virtual string GetKnownRequestHeader(int index);
[C++] public: virtual String* GetKnownRequestHeader(int index);
[VB] Overridable Public Function GetKnownRequestHeader(ByVal index As Integer) As String
[JScript] public function GetKnownRequestHeader(index : int) : String;

Description

GetKnownRequestHeaderIndex

[C#] public static int GetKnownRequestHeaderIndex(string header);
[C++] public: static int GetKnownRequestHeaderIndex(String* header);
[VB] Public Shared Function GetKnownRequestHeaderIndex(ByVal header As String) As Integer
[JScript] public static function GetKnownRequestHeaderIndex(header : String) : int;

Description

GetKnownRequestHeaderName

```
[C#] public static string GetKnownRequestHeaderName(int index);
[C++] public: static String* GetKnownRequestHeaderName(int index);
[VB] Public Shared Function GetKnownRequestHeaderName(ByVal index As Integer) As String
[JScript] public static function GetKnownRequestHeaderName(index : int) : String;
```

Description

GetKnownResponseHeaderIndex

```
[C#] public static int GetKnownResponseHeaderIndex(string header);
[C++] public: static int GetKnownResponseHeaderIndex(String* header);
[VB] Public Shared Function GetKnownResponseHeaderIndex(ByVal header As String) As Integer
[JScript] public static function GetKnownResponseHeaderIndex(header : String) : int;
```

Description

GetKnownResponseHeaderName

```
[C#] public static string GetKnownResponseHeaderName(int index);
[C++] public: static String* GetKnownResponseHeaderName(int index);
```

```
[VB] Public Shared Function GetKnownResponseHeaderName(ByVal index As Integer) As String
[JScript] public static function GetKnownResponseHeaderName(index : int) : String;
```

Description

GetLocalAddress

```
[C#] public abstract string GetLocalAddress();
[C++] public: virtual String* GetLocalAddress() = 0;
[VB] MustOverride Public Function GetLocalAddress() As String
[JScript] public abstract function GetLocalAddress() : String;
```

Description

Provides access to the specified member of the request header. *Return Value:* The server's IP address returned in the request header.

GetLocalPort

```
[C#] public abstract int GetLocalPort();
[C++] public: virtual int GetLocalPort() = 0;
[VB] MustOverride Public Function GetLocalPort() As Integer
[JScript] public abstract function GetLocalPort() : int;
```

Description

Provides access to the specified member of the request header. *Return Value:* The server's port number returned in the request header.

GetPathInfo

```
[C#] public virtual string GetPathInfo();
[C++] public: virtual String* GetPathInfo();
[VB] Overridable Public Function GetPathInfo() As String
[JScript] public function GetPathInfo() : String;
```

Description

When overridden in a derived class, returns additional path information for a resource with a URL extension. That is, for the URL /virdir/page.html/tail, the PathInfo value is /tail.

Return Value: Additional path information for a resource.

GetPreloadedEntityBody

```
[C#] public virtual byte[] GetPreloadedEntityBody();
[C++] public: virtual unsigned char GetPreloadedEntityBody() __gc[];
[VB] Overridable Public Function GetPreloadedEntityBody() As Byte()
[JScript] public function GetPreloadedEntityBody() : Byte[];
```

Description

GetProtocol

[C#] public virtual string GetProtocol();

[C++] public: virtual String* GetProtocol();

[VB] Overridable Public Function GetProtocol() As String

[JScript] public function GetProtocol() : String;

Description

When overridden in a derived class, returns the HTTP protocol (HTTP or HTTPS).

Return Value: HTTPS if IsSecure is **true** , otherwise **false** .

GetQueryString

[C#] public abstract string GetQueryString();

[C++] public: virtual String* GetQueryString() = 0;

[VB] MustOverride Public Function GetQueryString() As String

[JScript] public abstract function GetQueryString() : String;

Description

Provides access to the specified member of the request header.

Return Value: The QueryString member of the request header.

GetQueryStringRawBytes

[C#] public virtual byte[] GetQueryStringRawBytes();

[C++] public: virtual unsigned char GetQueryStringRawBytes() __gc[];

[VB] Overridable Public Function GetQueryStringRawBytes() As Byte()

```
[JScript] public function GetQueryStringRawBytes() : Byte[];
```

Description

When overridden in a derived class, returns the response query string as an array of bytes.

Return Value: An array of bytes containing the response.

GetRawUrl

```
[C#] public abstract string GetRawUrl();
[C++] public: virtual String* GetRawUrl() = 0;
[VB] MustOverride Public Function GetRawUrl() As String
[JScript] public abstract function GetRawUrl() : String;
```

Description

Provides access to the specified member of the request header.

Return Value: The raw url member of the request header.

GetRemoteAddress

```
[C#] public abstract string GetRemoteAddress();
[C++] public: virtual String* GetRemoteAddress() = 0;
[VB] MustOverride Public Function GetRemoteAddress() As String
[JScript] public abstract function GetRemoteAddress() : String;
```

Description

Provides access to the specified member of the request header. *Return Value:* The client's IP address returned in the request header.

GetRemoteName

```
[C#] public virtual string GetRemoteName();
[C++] public: virtual String* GetRemoteName();
[VB] Overridable Public Function GetRemoteName() As String
[JScript] public function GetRemoteName() : String;
```

Description

When overridden in a derived class, returns the client computer's name. *Return Value:* The name of the client machine.

GetRemotePort

```
[C#] public abstract int GetRemotePort();
[C++] public: virtual int GetRemotePort() = 0;
[VB] MustOverride Public Function GetRemotePort() As Integer
[JScript] public abstract function GetRemotePort() : int;
```

Description

Provides access to the specified member of the request header. *Return Value:* The client HTTP port number returned in the request header.

GetRequestReason

```
[C#] public virtual int GetRequestReason();
```

[C++] public: virtual int GetRequestReason();

[VB] Overridable Public Function GetRequestReason() As Integer

[JScript] public function GetRequestReason() : int;

Description

When overridden in a derived class, returns the reason for the request. *Return Value:* Reason code. The default is ReasonResponseCacheMiss.

GetServerName

[C#] public virtual string GetServerName();

[C++] public: virtual String* GetServerName();

[VB] Overridable Public Function GetServerName() As String

[JScript] public function GetServerName() : String;

Description

When overridden in a derived class, returns the name of the local server. *Return Value:* The name of the server.

GetServerVariable

[C#] public virtual string GetServerVariable(string name);

[C++] public: virtual String* GetServerVariable(String* name);

[VB] Overridable Public Function GetServerVariable(ByVal name As String) As String

[JScript] public function GetServerVariable(name : String) : String;

Description

GetStatusDescription

[C#] public static string GetStatusDescription(int code);
[C++] public: static String* GetStatusDescription(int code);
[VB] Public Shared Function GetStatusDescription(ByVal code As Integer) As String
[JScript] public static function GetStatusDescription(code : int) : String;

Description

GetUnknownRequestHeader

[C#] public virtual string GetUnknownRequestHeader(string name);
[C++] public: virtual String* GetUnknownRequestHeader(String* name);
[VB] Overridable Public Function GetUnknownRequestHeader(ByVal name As String) As String
[JScript] public function GetUnknownRequestHeader(name : String) : String;

Description

GetUnknownRequestHeaders

```
[C#] public virtual string[][] GetUnknownRequestHeaders();
[C++] public: virtual String* GetUnknownRequestHeaders() [];
[VB] Overridable Public Function GetUnknownRequestHeaders() As String()()
[JScript] public function GetUnknownRequestHeaders() : String[][];
```

Description

GetUriPath

```
[C#] public abstract string GetUriPath();
[C++] public: virtual String* GetUriPath() = 0;
[VB] MustOverride Public Function GetUriPath() As String
[JScript] public abstract function GetUriPath() : String;
```

Description

Returns the physical path to the requested URI.

Return Value: The path of the requested URI.

GetUrlContextID

```
[C#] public virtual long GetUrlContextID();
[C++] public: virtual __int64 GetUrlContextID();
[VB] Overridable Public Function GetUrlContextID() As Long
[JScript] public function GetUrlContextID() : long;
```

Description

When overridden in a derived class, returns the context ID of the current connection.

Return Value: Always returns 0.

GetUserToken

```
[C#] public virtual IntPtr GetUserToken();
[C++] public: virtual IntPtr GetUserToken();
[VB] Overridable Public Function GetUserToken() As IntPtr
[JScript] public function GetUserToken() : IntPtr;
```

Description

When overridden in a derived class, returns the client's impersonation token.

Return Value: The value representing the impersonation token. The default is 0.

GetVirtualPathToken

```
[C#] public virtual IntPtr GetVirtualPathToken();
[C++] public: virtual IntPtr GetVirtualPathToken();
[VB] Overridable Public Function GetVirtualPathToken() As IntPtr
[JScript] public function GetVirtualPathToken() : IntPtr;
```

Description

HasEntityBody

[C#] public bool HasEntityBody();
[C++] public: bool HasEntityBody();
[VB] Public Function HasEntityBody() As Boolean
[JScript] public function HasEntityBody() : Boolean;

Description

HeadersSent

[C#] public virtual bool HeadersSent();
[C++] public: virtual bool HeadersSent();
[VB] Overridable Public Function HeadersSent() As Boolean
[JScript] public function HeadersSent() : Boolean;

Description

IsClientConnected

[C#] public virtual bool IsClientConnected();
[C++] public: virtual bool IsClientConnected();
[VB] Overridable Public Function IsClientConnected() As Boolean
[JScript] public function IsClientConnected() : Boolean;

Description

IsEntireEntityBodyIsPreloaded

[C#] public virtual bool IsEntireEntityBodyIsPreloaded();
[C++] public: virtual bool IsEntireEntityBodyIsPreloaded();
[VB] Overridable Public Function IsEntireEntityBodyIsPreloaded() As Boolean
[JScript] public function IsEntireEntityBodyIsPreloaded() : Boolean;

Description

IsSecure

[C#] public virtual bool IsSecure();
[C++] public: virtual bool IsSecure();
[VB] Overridable Public Function IsSecure() As Boolean
[JScript] public function IsSecure() : Boolean;

Description

When overridden in a derived class, returns a value indicating whether the connection is secure (using SSL). *Return Value:* **true** if the connection is secure, otherwise **false** . The default is **false** .

MapPath

[C#] public virtual string MapPath(string virtualPath);

[C++] public: virtual String* MapPath(String* virtualPath);

[VB] Overridable Public Function MapPath(ByVal virtualPath As String) As String

[JScript] public function MapPath(virtualPath : String) : String;

Description

ReadEntityBody

[C#] public virtual int ReadEntityBody(byte[] buffer, int size);

[C++] public: virtual int ReadEntityBody(unsigned char buffer __gc[], int size);

[VB] Overridable Public Function ReadEntityBody(ByVal buffer() As Byte, ByVal size As Integer) As Integer

[JScript] public function ReadEntityBody(buffer : Byte[], size : int) : int;

Description

SendCalculatedContentLength

[C#] public virtual void SendCalculatedContentLength(int contentLength);

[C++] public: virtual void SendCalculatedContentLength(int contentLength);

[VB] Overridable Public Sub SendCalculatedContentLength(ByVal contentLength As Integer)

[JScript] public function SendCalculatedContentLength(contentLength : int);

Description

SendKnownResponseHeader

[C#] public abstract void SendKnownResponseHeader(int index, string value);

[C++] public: virtual void SendKnownResponseHeader(int index, String* value) = 0;

[VB] MustOverride Public Sub SendKnownResponseHeader(ByVal index As Integer, ByVal value As String)

[JScript] public abstract function SendKnownResponseHeader(index : int, value : String);

Description

SendResponseFromFile

[C#] public abstract void SendResponseFromFile(IntPtr handle, long offset, long length);

[C++] public: virtual void SendResponseFromFile(IntPtr handle, __int64 offset, __int64 length) = 0;

[VB] MustOverride Public Sub SendResponseFromFile(ByVal handle As IntPtr, ByVal offset As Long, ByVal length As Long)

[JScript] public abstract function SendResponseFromFile(handle : IntPtr, offset :

long, length : long);

Description

SendResponseFromFile

[C#] public abstract void SendResponseFromFile(string filename, long offset, long length);

[C++] public: virtual void SendResponseFromFile(String* filename, __int64 offset, __int64 length) = 0;

[VB] MustOverride Public Sub SendResponseFromFile(ByVal filename As String, ByVal offset As Long, ByVal length As Long)

[JScript] public abstract function SendResponseFromFile(filename : String, offset : long, length : long);

Description

SendResponseFromMemory

[C#] public abstract void SendResponseFromMemory(byte[] data, int length);

[C++] public: virtual void SendResponseFromMemory(unsigned char data __gc[], int length) = 0;

[VB] MustOverride Public Sub SendResponseFromMemory(ByVal data() As Byte, ByVal length As Integer)

[JScript] public abstract function SendResponseFromMemory(data : Byte[], length

```
: int);
```

Description

SendResponseFromMemory

```
[C#] public virtual void SendResponseFromMemory(IntPtr data, int length);
[C++] public: virtual void SendResponseFromMemory(IntPtr data, int length);
[VB] Overridable Public Sub SendResponseFromMemory(ByVal data As IntPtr, ByVal length As Integer)
[JScript] public function SendResponseFromMemory(data : IntPtr, length : int);
```

Description

SendStatus

```
[C#] public abstract void SendStatus(int statusCode, string statusDescription);
[C++] public: virtual void SendStatus(int statusCode, String* statusDescription) = 0;
[VB] MustOverride Public Sub SendStatus(ByVal statusCode As Integer, ByVal statusDescription As String)
[JScript] public abstract function SendStatus(statusCode : int, statusDescription : String);
```

Description

SendUnknownResponseHeader

[C#] public abstract void SendUnknownResponseHeader(string name, string value);

[C++] public: virtual void SendUnknownResponseHeader(String* name, String* value) = 0;

[VB] MustOverride Public Sub SendUnknownResponseHeader(ByVal name As String, ByVal value As String)

[JScript] public abstract function SendUnknownResponseHeader(name : String, value : String);

Description

SetEndOfSendNotification

[C#] public virtual void SetEndOfSendNotification(HttpWorkerRequest.EndOfSendNotification callback, object extraData);

[C++] public: virtual void SetEndOfSendNotification(HttpWorkerRequest.EndOfSendNotification* callback, Object* extraData);

[VB] Overridable Public Sub SetEndOfSendNotification(ByVal callback As HttpWorkerRequest.EndOfSendNotification, ByVal extraData As Object)

[JScript] public function SetEndOfSendNotification(callback :

HttpWorkerRequest.EndOfSendNotification, extraData : Object);

Description

HttpWriter class (System.Web)

ToString

Description

Provides a **System.IO.TextWriter** object that is accessed through the intrinsic **System.Web.HttpResponse** object.

The **System.Web.HttpResponse.Write(System.String)** methods of the intrinsic **System.Web.HttpResponse** object make internal calls to an **HttpWriter** object.

Encoding

ToString

Description

Gets an **System.Text.Encoding** object for the **System.IO.TextWriter** .

FormatProvider

NewLine

OutputStream

ToString

Description

Gets a **System.IO.Stream** object to enable HTTP output directly from the **Stream** .

Close

```
[C#] public override void Close();
[C++] public: void Close();
[VB] Overrides Public Sub Close()
[JScript] public override function Close();
```

Description

Sends all buffered output to the HTTP output stream and closes the socket connection.

Flush

```
[C#] public override void Flush();
[C++] public: void Flush();
[VB] Overrides Public Sub Flush()
[JScript] public override function Flush();
```

Description

Sends all buffered output to the HTTP output stream.

Write

[C#] public override void Write(char ch);
[C++] public: void Write(__wchar_t ch);
[VB] Overrides Public Sub Write(ByVal ch As Char)
[JScript] public override function Write(ch : Char); Sends HTTP output to the client.

Description

Sends a single character to the HTTP output stream. The character to send to the HTTP output stream.

Write

[C#] public override void Write(object obj);
[C++] public: void Write(Object* obj);
[VB] Overrides Public Sub Write(ByVal obj As Object)
[JScript] public override function Write(obj : Object);

Description

Sends an **Object** to the HTTP output stream. The **Object** to send to the HTTP output stream.

Write

[C#] public override void Write(string s);
[C++] public: void Write(String* s);
[VB] Overrides Public Sub Write(ByVal s As String)

[JScript] public override function Write(s : String);

Description

Sends a string to the HTTP output stream. The string to send to the HTTP output stream.

Write

[C#] public override void Write(char[] buffer, int index, int count);
[C++] public: void Write(__wchar_t buffer __gc[], int index, int count);
[VB] Overrides Public Sub Write(ByVal buffer() As Char, ByVal index As Integer, ByVal count As Integer)
[JScript] public override function Write(buffer : Char[], index : int, count : int);

Description

Sends a stream of characters with the specified starting position and number of characters to the HTTP output stream. The memory buffer containing the characters to send to the HTTP output stream The buffer position of the first character to send. The number of characters to send beginning at the position specified by *index*.

WriteBytes

[C#] public void WriteBytes(byte[] buffer, int index, int count);
[C++] public: void WriteBytes(unsigned char buffer __gc[], int index, int count);
[VB] Public Sub WriteBytes(ByVal buffer() As Byte, ByVal index As Integer, ByVal count As Integer)

[JScript] public function WriteBytes(buffer : Byte[], index : int, count : int);

Description

Sends a stream of bytes with the specified starting position and number of bytes to the HTTP output stream. The memory buffer containing the bytes to send to the HTTP output stream. The buffer position of the first byte to send. The number of bytes to send, beginning at the byte position specified by *index* .

WriteLine

[C#] public override void WriteLine();

[C++] public: void WriteLine();

[VB] Overrides Public Sub WriteLine()

[JScript] public override function WriteLine();

Description

Sends a carriage return + line feed (CRLF) pair of characters to the HTTP output stream.

WriteString

[C#] public void WriteString(string s, int index, int count);

[C++] public: void WriteString(String* s, int index, int count);

[VB] Public Sub WriteString(ByVal s As String, ByVal index As Integer, ByVal count As Integer)

[JScript] public function WriteString(s : String, index : int, count : int);

Description

Sends a string or a sub-string to the client.

IHttpAsyncHandler interface (System.Web)

WriteString

Description

When implemented by a class, defines the contract that HTTP asynchronous handler objects must implement.

BeginProcessRequest

[C#] IAsyncResult BeginProcessRequest(HttpContext context, AsyncCallback cb, object extraData);

[C++] IAsyncResult* BeginProcessRequest(HttpContext* context, AsyncCallback* cb, Object* extraData);

[VB] Function BeginProcessRequest(ByVal context As HttpContext, ByVal cb As AsyncCallback, ByVal extraData As Object) As IAsyncResult

[JScript] function BeginProcessRequest(context : HttpContext, cb : AsyncCallback, extraData : Object) : IAsyncResult;

Description

Initiates an asynchronous call to the HTTP handler. *Return Value:* An **System.IAsyncResult** that contains information about the status of the process. An **System.Web.HttpContext** object that provides references to intrinsic server objects (for example, **Request**, **Response**, **Session**, and **Server**) used to service HTTP requests. The **System.AsyncCallback** to call when the asynchronous method call is complete. If *cb* is a null reference (**Nothing** in Visual Basic), the delegate is not called. Any extra data needed to process the request.

EndProcessRequest

```
[C#] void EndProcessRequest(IAsyncResult result);
[C++] void EndProcessRequest(IAsyncResult* result);
[VB] Sub EndProcessRequest(ByVal result As IAsyncResult)
[JScript] function EndProcessRequest(result : IAsyncResult);
```

Description

Executes clean-up code when the process ends. An **System.IAsyncResult** that contains information about the status of the process.

IHttpHandler interface (System.Web)

EndProcessRequest

Description

Defines the contract that ASP.NET implements to synchronously process HTTP Web requests using custom HTTP handlers.

You can write custom HTTP handlers to process specific, predefined types of HTTP requests in any Common Language Specification (CLS) compliant language. Executable code defined in the **HttpHandler** classes, rather than conventional ASP or ASP.NET Web pages, responds to these specific requests.

HTTP handlers give you a means of interacting with the low-level request and response services of the IIS Web server and provide functionality much like ISAPI extensions but with a simpler programming model.

IsReusable

EndProcessRequest

```
[C#]        bool        IsReusable        {get;}
[C++]       bool        get_IsReusable();
[VB]        ReadOnly    Property    IsReusable    As    Boolean
[JScript]   abstract    function    get    IsReusable()    :    Boolean;
```

Description

Gets a value indicating whether another request can use the **System.Web.IHttpHandler** instance.

You explicitly set the **IsReusable** property to **true** or **false** by code you provide that overrides the **IsReusable** property accessor.

ProcessRequest

```
[C#]        void    ProcessRequest(HttpContext    context);
[C++]       void    ProcessRequest(HttpContext*   context);
[VB]        Sub     ProcessRequest(ByVal    context    As    HttpContext)
[JScript]   function    ProcessRequest(context    :    HttpContext);
```

Description

Enables processing of HTTP Web requests by a custom **HttpHandler** that implements the **System.Web.IHttpHandler** interface.

Place your custom **HttpHandler** code in the **ProcessRequest** virtual method as shown in the following example. An **System.Web.HttpContext** object that provides references to the intrinsic server objects (for example, **Request**, **Response**, **Session**, and **Server**) used to service HTTP requests.

IHttpHandlerFactory interface (System.Web)

ProcessRequest

Description

Defines the contract that class factories must implement to create new **System.Web.IHttpHandler** objects.

A class that implements the **IHttpHandlerFactory** interface has no behavior except to dynamically manufacture new handler objects--that is, new instances of classes that implement the **IHttpHandler** interface.

GetHandler

[C#] IHttpHandler GetHandler(HttpContext context, string requestType, string url, string pathTranslated);

[C++] IHttpHandler* GetHandler(HttpContext* context, String* requestType, String* url, String* pathTranslated);

[VB] Function GetHandler(ByVal context As HttpContext, ByVal requestType As String, ByVal url As String, ByVal pathTranslated As String) As IHttpHandler

[JScript] function GetHandler(context : HttpContext, requestType : String, url :

```
String, pathTranslated : String) : IHttpHandler;
```

Description

Returns an instance of a class that implements the IHttpHandler interface. *Return Value:* A new **IHttpHandler** object that processes the request. An instance of the **System.Web.HttpContext** class that provides references to intrinsic server objects (For example, **Request**, **Response**, **Session**, and **Server**) used to service HTTP requests. The HTTP data transfer method (**GET** or **POST**) that the client uses. The **System.Web.HttpRequest.RawUrl** of the requested resource. The **System.Web.HttpRequest.PhysicalApplicationPath** to the requested resource.

ReleaseHandler

```
[C#] void ReleaseHandler(IHttpHandler handler);
[C++] void ReleaseHandler(IHttpHandler* handler);
[VB] Sub ReleaseHandler(ByVal handler As IHttpHandler)
[JScript] function ReleaseHandler(handler : IHttpHandler);
```

Description

Enables a factory to reuse an existing handler instance. The IHttpHandler object to reuse.

IHttpModule interface (System.Web)

ReleaseHandler

Description

Provides module initialization and disposal events to the inheriting class.

Dispose

[C#] void Dispose();
[C++] void Dispose();
[VB] Sub Dispose()
[JScript] function Dispose();

Description

Disposes of the resources (other than memory) used by the module that implements **IHttpModule.**

Dispose performs any final cleanup work prior to removal of the module from the execution pipeline.

Init

[C#] void Init(HttpApplication context);
[C++] void Init(HttpApplication* context);
[VB] Sub Init(ByVal context As HttpApplication)
[JScript] function Init(context : HttpApplication);

Description

Initializes a module and prepares it to handle requests.

ProcessInfo class (System.Web)

Init

Description

Provides information on processes currently executing.

ProcessInfo

Example Syntax:

Init

[C#] public ProcessInfo();

[C++] public: ProcessInfo();

[VB] Public Sub New()

[JScript] public function ProcessInfo();

Description

Initializes a new instance of the **System.Web.ProcessInfo** class.

The default constructor initializes all fields to their default values.

ProcessInfo

Example Syntax:

Init

[C#] public ProcessInfo(DateTime startTime, TimeSpan age, int processID, int requestCount, ProcessStatus status, ProcessShutdownReason shutdownReason, int peakMemoryUsed);

[C++] public: ProcessInfo(DateTime startTime, TimeSpan age, int processID, int requestCount, ProcessStatus status, ProcessShutdownReason shutdownReason, int peakMemoryUsed);

[VB] Public Sub New(ByVal startTime As DateTime, ByVal age As TimeSpan, ByVal processID As Integer, ByVal requestCount As Integer, ByVal status As ProcessStatus, ByVal shutdownReason As ProcessShutdownReason, ByVal peakMemoryUsed As Integer)

[JScript] public function ProcessInfo(startTime : DateTime, age : TimeSpan, processID : int, requestCount : int, status : ProcessStatus, shutdownReason : ProcessShutdownReason, peakMemoryUsed : int); Initializes a new instance of the **System.Web.ProcessInfo** class.

Description

Initializes a new instance of the **ProcessInfo** class and sets internal information indicating the status of the process. A **System.DateTime** that indicates the time at which the process started. The **System.TimeSpan** that indicates the time elapsed since the process started. The ID number assigned to the process. The number of start requests for the process. One of the **System.Web.ProcessStatus** values that indicates the current status of the process. One of the **System.Web.ProcessShutdownReason** values. The maximum memory used (in bytes).

Age

Init

[C#] public TimeSpan Age {get;}

[C++] public: __property TimeSpan get_Age();

[VB] Public ReadOnly Property Age As TimeSpan

```
[JScript] public function get Age() : TimeSpan;
```

Description

Gets the length of time the process has been running.

PeakMemoryUsed

Init

```
[C#] public int PeakMemoryUsed {get;}
[C++] public: __property int get_PeakMemoryUsed();
[VB] Public ReadOnly Property PeakMemoryUsed As Integer
[JScript] public function get PeakMemoryUsed() : int;
```

Description

Gets the maximum amount of memory the process has used.

ProcessID

Init

```
[C#] public int ProcessID {get;}
[C++] public: __property int get_ProcessID();
[VB] Public ReadOnly Property ProcessID As Integer
[JScript] public function get ProcessID() : int;
```

Description

Gets the ID number assigned to the process.

RequestCount

Init

[C#] public int RequestCount {get;}
[C++] public: __property int get_RequestCount();
[VB] Public ReadOnly Property RequestCount As Integer
[JScript] public function get RequestCount() : int;

Description

Gets the number of start requests for the process.

ShutdownReason

Init

[C#] public ProcessShutdownReason ShutdownReason {get;}
[C++] public: __property ProcessShutdownReason get_ShutdownReason();
[VB] Public ReadOnly Property ShutdownReason As ProcessShutdownReason
[JScript] public function get ShutdownReason() : ProcessShutdownReason;

Description

Gets a value that indicates why the process shut down.

StartTime

Init

[C#] public DateTime StartTime {get;}
[C++] public: __property DateTime get_StartTime();
[VB] Public ReadOnly Property StartTime As DateTime

[JScript] public function get StartTime() : DateTime;

Description

Gets the time at which the process started.

Status

Init

[C#] public ProcessStatus Status {get;}

[C++] public: __property ProcessStatus get_Status();

[VB] Public ReadOnly Property Status As ProcessStatus

[JScript] public function get Status() : ProcessStatus;

Description

Gets the current status of the process.

SetAll

[C#] public void SetAll(DateTime startTime, TimeSpan age, int processID, int requestCount, ProcessStatus status, ProcessShutdownReason shutdownReason, int peakMemoryUsed);

[C++] public: void SetAll(DateTime startTime, TimeSpan age, int processID, int requestCount, ProcessStatus status, ProcessShutdownReason shutdownReason, int peakMemoryUsed);

[VB] Public Sub SetAll(ByVal startTime As DateTime, ByVal age As TimeSpan, ByVal processID As Integer, ByVal requestCount As Integer, ByVal status As ProcessStatus, ByVal shutdownReason As ProcessShutdownReason, ByVal peakMemoryUsed As Integer)

[JScript] public function SetAll(startTime : DateTime, age : TimeSpan, processID : int, requestCount : int, status : ProcessStatus, shutdownReason : ProcessShutdownReason, peakMemoryUsed : int);

Description

Sets internal information indicating the status of the process. A **System.DateTime** that indicates the time at which the process started. A **System.TimeSpan** that indicates the time elapsed since the process started. The ID number assigned to the process. The number of start requests for the process. One of the **System.Web.ProcessStatus** values that indicates the time elapsed since tha process started. One of the **System.Web.ProcessShutdownReason** values. The maximum memory used (in bytes).

ProcessModelInfo class (System.Web)

ToString

ProcessModelInfo

Example Syntax:

ToString

GetCurrentProcessInfo

[C#] public static ProcessInfo GetCurrentProcessInfo();

[C++] public: static ProcessInfo* GetCurrentProcessInfo();

[VB] Public Shared Function GetCurrentProcessInfo() As ProcessInfo

[JScript] public static function GetCurrentProcessInfo() : ProcessInfo;

GetHistory

[C#] public static ProcessInfo[] GetHistory(int numRecords);

[C++] public: static ProcessInfo* GetHistory(int numRecords) [];

[VB] Public Shared Function GetHistory(ByVal numRecords As Integer) As ProcessInfo()

[JScript] public static function GetHistory(numRecords : int) : ProcessInfo[];

ProcessShutdownReason enumeration (System.Web)

ToString

Description

Provides enumerated values that indicate why a process has shut down.

ToString

[C#] public const ProcessShutdownReason IdleTimeout;

[C++] public: const ProcessShutdownReason IdleTimeout;

[VB] Public Const IdleTimeout As ProcessShutdownReason

[JScript] public var IdleTimeout : ProcessShutdownReason;

Description

Indicates that the process exceeded the allowable idle time.

ToString

[C#] public const ProcessShutdownReason MemoryLimitExceeded;

[C++] public: const ProcessShutdownReason MemoryLimitExceeded;

```
[VB] Public Const MemoryLimitExceeded As ProcessShutdownReason
[JScript] public var MemoryLimitExceeded : ProcessShutdownReason;
```

Description

Indicates that the process exceeded the per-process memory limit.

ToString

```
[C#] public const ProcessShutdownReason None;
[C++] public: const ProcessShutdownReason None;
[VB] Public Const None As ProcessShutdownReason
[JScript] public var None : ProcessShutdownReason;
```

Description

Indicates that the process has not shut down.

ToString

```
[C#] public const ProcessShutdownReason PingFailed;
[C++] public: const ProcessShutdownReason PingFailed;
[VB] Public Const PingFailed As ProcessShutdownReason
[JScript] public var PingFailed : ProcessShutdownReason;
```

Description

ToString

```
[C#] public const ProcessShutdownReason RequestQueueLimit;
[C++] public: const ProcessShutdownReason RequestQueueLimit;
[VB] Public Const RequestQueueLimit As ProcessShutdownReason
[JScript] public var RequestQueueLimit : ProcessShutdownReason;
```

Description

Indicates that the request for a process exceeded the allowable number of processes in the queue.

ToString

```
[C#] public const ProcessShutdownReason RequestsLimit;
[C++] public: const ProcessShutdownReason RequestsLimit;
[VB] Public Const RequestsLimit As ProcessShutdownReason
[JScript] public var RequestsLimit : ProcessShutdownReason;
```

Description

Indicates that the request for the process exceeded the allowable number of processes.

ToString

```
[C#] public const ProcessShutdownReason Timeout;
[C++] public: const ProcessShutdownReason Timeout;
[VB] Public Const Timeout As ProcessShutdownReason
[JScript] public var Timeout : ProcessShutdownReason;
```

Description

Indicates that the process timed out.

ToString

```
[C#] public const ProcessShutdownReason Unexpected;
[C++] public: const ProcessShutdownReason Unexpected;
[VB] Public Const Unexpected As ProcessShutdownReason
[JScript] public var Unexpected : ProcessShutdownReason;
```

Description

Indicates that the process shut down unexpectedly.

ProcessStatus enumeration (System.Web)

ToString

Description

Provides enumerated values that indicate the current status of a process.

ToString

```
[C#] public const ProcessStatus Alive;
[C++] public: const ProcessStatus Alive;
[VB] Public Const Alive As ProcessStatus
[JScript] public var Alive : ProcessStatus;
```

Description

Indicates that the process is running.

ToString

```
[C#] public const ProcessStatus ShutDown;
[C++] public: const ProcessStatus ShutDown;
[VB] Public Const ShutDown As ProcessStatus
[JScript] public var ShutDown : ProcessStatus;
```

Description

Indicates that the process has shut down.

ToString

```
[C#] public const ProcessStatus ShuttingDown;
[C++] public: const ProcessStatus ShuttingDown;
[VB] Public Const ShuttingDown As ProcessStatus
[JScript] public var ShuttingDown : ProcessStatus;
```

Description

Indicates that the process has begun to shut down.

ToString

```
[C#] public const ProcessStatus Terminated;
[C++] public: const ProcessStatus Terminated;
```

[VB] Public Const Terminated As ProcessStatus

[JScript] public var Terminated : ProcessStatus;

Description

Indicates that the process has terminated.

TraceContext class (System.Web)

ToString

Description

Captures and presents execution details about a Web request. This class cannot be inherited.

You can use this class to append messages to specific trace categories. For example, if you are creating an instance of the **System.Web.UI.WebControls.Calendar** class for your application, you might include the trace message "Starting To Render" in a rendering procedure, and "Firing OnChange Event" in an event handling procedure.

TraceContext

Example Syntax:

ToString

[C#] public TraceContext(HttpContext context);

[C++] public: TraceContext(HttpContext* context);

[VB] Public Sub New(ByVal context As HttpContext)

[JScript] public function TraceContext(context : HttpContext);

Description

Initializes a new instance of the **System.Web.TraceContext** class. An **System.Web.HttpContext** that contains information about the current Web request.

IsEnabled

ToString

[C#] public bool IsEnabled {get; set;}

[C++] public: __property bool get_IsEnabled();public: __property void set_IsEnabled(bool);

[VB] Public Property IsEnabled As Boolean

[JScript] public function get IsEnabled() : Boolean;public function set IsEnabled(Boolean);

Description

Indicates whether tracing is enabled for the current Web request.

Use this flag to check whether your page or application should output tracing information before it writes anything to the trace log. You can set this property to **true** for a page by including a trace="true" attribute in the directive. To set the property to **true** for an entire application, set it in the application's Web.config file.

TraceMode

ToString

[C#] public TraceMode TraceMode {get; set;}
[C++] public: __property TraceMode get_TraceMode();public: __property void set_TraceMode(TraceMode);
[VB] Public Property TraceMode As TraceMode
[JScript] public function get TraceMode() : TraceMode;public function set TraceMode(TraceMode);

Description

Gets or sets the sorted order in which trace messages should be output to a requesting browser.

Trace messages can be sorted in the order they were processed, or alphabetically by user-defined category.

Warn

[C#] public void Warn(string message);
[C++] public: void Warn(String* message);
[VB] Public Sub Warn(ByVal message As String)
[JScript] public function Warn(message : String); Writes trace information to the trace log. Unlike **System.Web.TraceContext.Write(System.String)** , all warnings appear in the log as red text.

Description

Writes a trace message to the trace log. All warnings appear as in the log as red text. The trace message to write to the log.

Warn

[C#] public void Warn(string category, string message);
[C++] public: void Warn(String* category, String* message);
[VB] Public Sub Warn(ByVal category As String, ByVal message As String)
[JScript] public function Warn(category : String, message : String); Writes trace information to the trace log. All warnings appear in the log as red text.

Description

Writes trace information to the trace log, including any user-defined categories and trace messages. All warnings appear in the log as red text. The trace category that receives the message. The trace message to write to the log.

Warn

[C#] public void Warn(string category, string message, Exception errorInfo);
[C++] public: void Warn(String* category, String* message, Exception* errorInfo);
[VB] Public Sub Warn(ByVal category As String, ByVal message As String, ByVal errorInfo As Exception)
[JScript] public function Warn(category : String, message : String, errorInfo : Exception);

Description

Writes trace information to the trace log, including any user-defined categories,trace messages, and error information. All warnings appear in the log as red text. The trace category that receives the message. The trace message to write to the log. An **System.Exception** that contains information about the error.

Write

[C#] public void Write(string message);
[C++] public: void Write(String* message);
[VB] Public Sub Write(ByVal message As String)
[JScript] public function Write(message : String); Writes trace information to the trace log.

Description

Writes a trace message to the trace log. The trace message to write to the log.

Write

[C#] public void Write(string category, string message);
[C++] public: void Write(String* category, String* message);
[VB] Public Sub Write(ByVal category As String, ByVal message As String)
[JScript] public function Write(category : String, message : String); Writes trace information to the trace log.

Description

Writes trace information to the trace log, including a message and any user-defined categories. The trace category that receives the message. The trace message to write to the log.

Write

```
[C#] public void Write(string category, string message, Exception errorInfo);
[C++] public: void Write(String* category, String* message, Exception* errorInfo);
[VB] Public Sub Write(ByVal category As String, ByVal message As String, ByVal errorInfo As Exception)
[JScript] public function Write(category : String, message : String, errorInfo : Exception);
```

Description

Writes trace information to the trace log, including any user-defined categories,trace messages, and error information. The trace category that receives the message. The trace message to write to the log. An **System.Exception** that contains information about the error.

TraceMode enumeration (System.Web)

Write

Description

Specifies in what order trace messages are emitted into the HTML output of a page.

Write

```
[C#] public const TraceMode Default;
```

[C++] public: const TraceMode Default;
[VB] Public Const Default As TraceMode
[JScript] public var Default : TraceMode;

Description

Specifies the default value of the **TraceMode** enumeration, which is **SortByTime** .

System.Web.Caching

Description

The System.Web.Caching namespace provides classes for caching frequently used resources on the server. This includes ASP.NET pages, web services, and user controls. Additionally, a cache dictionary is available for you to store frequently used resources, such as hashtables and other data structures.

Cache class (System.Web.Caching)

Description

Implements the cache for a Web application.

One instance of this class is created per application domain, and it remains valid as long as the application domain remains active. Information about an instance of this class is available through the **Cache** property of the **System.Web.HttpContext** object. This class cannot be inherited.

[C#] public static readonly DateTime NoAbsoluteExpiration;

[C++] public: static DateTime NoAbsoluteExpiration;

[VB] Public Shared ReadOnly NoAbsoluteExpiration As DateTime

[JScript] public static var NoAbsoluteExpiration : DateTime;

Description

Used in the *absoluteExpiration* parameter in an **System.Web.Caching.Cache.Insert(System.String,System.Object)** method call to indicate the item should never expire. This field is read-only.

When used, this field sets the *absoluteExpiration* parameter equal to **System.DateTime.MaxValue** , which is a constant representing the largest possible **DateTime** value, 12/31/9999 11:59:59 PM.

[C#] public static readonly TimeSpan NoSlidingExpiration;

[C++] public: static TimeSpan NoSlidingExpiration;

[VB] Public Shared ReadOnly NoSlidingExpiration As TimeSpan

[JScript] public static var NoSlidingExpiration : TimeSpan;

Description

Used as the *slidingExpiration* parameter in an **System.Web.Caching.Cache.Insert(System.String,System.Object)** method call to disable sliding expirations. This field is read-only.

When used, this field sets the *slidingExpiration* parameter equal to the **System.TimeSpan.Zero** field, which has a constant value of zero. The cached item then expires in accordance with the *absoluteExpiration* parameter.

Constructors:

Cache

Example Syntax:

```
[C#] public Cache();
[C++] public: Cache();
[VB] Public Sub New()
[JScript] public function Cache();
```

Properties:

Count

```
[C#] public int Count {get;}
[C++] public: __property int get_Count();
[VB] Public ReadOnly Property Count As Integer
[JScript] public function get Count() : int;
```

Description

Gets the number of items stored in the cache.

This property can be useful when monitoring your application's performance or when using ASP.NET tracing functionality.

Item

[C#] public object this[string key] {get; set;}

[C++] public: __property Object* get_Item(String* key);public: __property void set_Item(String* key, Object*);

[VB] Public Default Property Item(ByVal key As String) As Object

[JScript] returnValue = CacheObject.Item(key);CacheObject.Item(key) = returnValue;

Description

Gets or sets the cache item at the specified key.

You can use this property to retrieve the value of a specified cache item, or to add an item and a key for it to the cache. A **System.String** object that represents the key for the cache item.

Methods:

Add

[C#] public object Add(string key, object value, CacheDependency dependencies, DateTime absoluteExpiration, TimeSpan slidingExpiration, CacheItemPriority priority, CacheItemRemovedCallback onRemoveCallback);

[C++] public: Object* Add(String* key, Object* value, CacheDependency* dependencies, DateTime absoluteExpiration, TimeSpan slidingExpiration, CacheItemPriority priority, CacheItemRemovedCallback* onRemoveCallback);

[VB] Public Function Add(ByVal key As String, ByVal value As Object, ByVal dependencies As CacheDependency, ByVal absoluteExpiration As DateTime, ByVal slidingExpiration As TimeSpan, ByVal priority As CacheItemPriority,

ByVal onRemoveCallback As CacheItemRemovedCallback) As Object
[JScript] public function Add(key : String, value : Object, dependencies : CacheDependency, absoluteExpiration : DateTime, slidingExpiration : TimeSpan, priority : CacheItemPriority, onRemoveCallback : CacheItemRemovedCallback) : Object;

Description

Adds the specified item to the **System.Web.Caching.Cache** object with dependencies, expiration and priority policies, and a delegate you can use to notify your application when the inserted item is removed from the **Cache** .

Return Value: The **System.Object** item added to the **Cache** . The cache key used to reference the item. The item to be added to the cache. The file or cache key dependencies for the item. When any dependency changes, the object becomes invalid and is removed from the cache. If there are no dependencies, this paramter contains **null** . The time at which the added object expires and is removed from the cache. The interval between the time the added object was last accessed and when that object expires. If this value is the equivalent of 20 minutes, the object expires and is removed from the cache 20 minutes after it is last accessed. The relative cost of the object, as expressed by the **System.Web.Caching.CacheItemPriority** enumeration. The cache uses this value when it evicts objects; objects with a lower cost are removed from the cache before objects with a higher cost. A delegate that, if provided, is called when an object is removed from the cache. You can use this to notify applications when their objects are deleted from the cache.

Get

```
[C#] public object Get(string key);
[C++] public: Object* Get(String* key);
[VB] Public Function Get(ByVal key As String) As Object
[JScript] public function Get(key : String) : Object;
```

Description

Retrieves the specified item from the **System.Web.Caching.Cache** object. *Return Value:* The retrieved cache item, or **null** if the key is not found. The identifier for the cache item to retrieve.

GetEnumerator

```
[C#] public IDictionaryEnumerator GetEnumerator();
[C++] public: IDictionaryEnumerator* GetEnumerator();
[VB] Public Function GetEnumerator() As IDictionaryEnumerator
[JScript] public function GetEnumerator() : IDictionaryEnumerator;
```

Description

Retrieves a dictionary enumerator used to iterate through the key settings and their values contained in the cache.

Return Value: An enumerator to iterate through the **System.Web.Caching.Cache** object.

Items can be added or removed from the cache while this method is enumerating through the items.

Insert

[C#] public void Insert(string key, object value);

[C++] public: void Insert(String* key, Object* value);

[VB] Public Sub Insert(ByVal key As String, ByVal value As Object)

[JScript] public function Insert(key : String, value : Object); Inserts an item into the **System.Web.Caching.Cache** object.

Description

Inserts an item into the **System.Web.Caching.Cache** object with a cache key to reference its location and using default values provided by the **System.Web.Caching.CacheItemPriority** and **System.Web.Caching.CacheItemPriorityDecay** enumerations. The cache key used to reference the item. The object to be inserted into the cache.

Insert

[C#] public void Insert(string key, object value, CacheDependency dependencies);

[C++] public: void Insert(String* key, Object* value, CacheDependency* dependencies);

[VB] Public Sub Insert(ByVal key As String, ByVal value As Object, ByVal dependencies As CacheDependency)

[JScript] public function Insert(key : String, value : Object, dependencies : CacheDependency);

Description

Inserts an object into the **System.Web.Caching.Cache** that has file or key dependencies. The cache key used to identify the item. The object to be inserted in the cache. The file or cache key dependencies for the inserted object. When any dependency changes, the object becomes invalid and is removed from the cache. If there are no dependencies, this parameter contains **null** .

Insert

[C#] public void Insert(string key, object value, CacheDependency dependencies, DateTime absoluteExpiration, TimeSpan slidingExpiration);

[C++] public: void Insert(String* key, Object* value, CacheDependency* dependencies, DateTime absoluteExpiration, TimeSpan slidingExpiration);

[VB] Public Sub Insert(ByVal key As String, ByVal value As Object, ByVal dependencies As CacheDependency, ByVal absoluteExpiration As DateTime, ByVal slidingExpiration As TimeSpan)

[JScript] public function Insert(key : String, value : Object, dependencies : CacheDependency, absoluteExpiration : DateTime, slidingExpiration : TimeSpan);

Description

Inserts an object into the **System.Web.Caching.Cache** with dependencies and expiration policies.

If the *slidingExpiration* parameter is set to **NoSlidingExpiration** , sliding expiration is disabled. If you set the *slidingExpiration* parameter to greater than **System.TimeSpan.Zero** , the *absoluteExpiration* parameter is set to **System.DateTime.Now** plus the value contained in the *slidingExpiration* parameter. If the item is requested from the cache before the amount of time specified by the *absoluteExpiration* parameter, the item will be placed in the cache again, and *absoluteExpiration* will again be set to **DateTime.Now** plus the value contained in the *slidingExpiration* parameter. If the item is not requested from the cache before the date in the *absoluteExpiration* parameter, the item is removed from the cache. The cache key used to reference the object. The object to be inserted in the cache. The file or cache key dependencies for the inserted object. When any dependency changes, the object becomes invalid and is removed from the cache. If there are no dependencies, this parameter contains **null** . The time at which the inserted object expires and is removed from the cache. The interval between the time the inserted object is last accessed and when that object expires. If this value is the equivalent of 20 minutes, the object will expire and be removed from the cache 20 minutes after it was last accessed.

Insert

```
[C#] public void Insert(string key, object value, CacheDependency dependencies,
DateTime absoluteExpiration, TimeSpan slidingExpiration, CacheItemPriority
priority, CacheItemRemovedCallback onRemoveCallback);
[C++] public: void Insert(String* key, Object* value, CacheDependency*
dependencies, DateTime absoluteExpiration, TimeSpan slidingExpiration,
CacheItemPriority priority, CacheItemRemovedCallback* onRemoveCallback);
[VB] Public Sub Insert(ByVal key As String, ByVal value As Object, ByVal
dependencies As CacheDependency, ByVal absoluteExpiration As DateTime,
ByVal slidingExpiration As TimeSpan, ByVal priority As CacheItemPriority,
ByVal onRemoveCallback As CacheItemRemovedCallback)
```

[JScript] public function Insert(key : String, value : Object, dependencies : CacheDependency, absoluteExpiration : DateTime, slidingExpiration : TimeSpan, priority : CacheItemPriority, onRemoveCallback : CacheItemRemovedCallback);

Description

Inserts an object into the **System.Web.Caching.Cache** object with dependencies, expiration and priority policies, and a delegate you can use to notify your application when the inserted item is removed from the **Cache** . The cache key used to reference the object. The object to be inserted in the cache. The file or cache key dependencies for the item. When any dependency changes, the object becomes invalid and is removed from the cache. If there are no dependencies, this parameter contains **null** . The time at which the inserted object expires and is removed from the cache. The interval between the time the inserted object was last accessed and when that object expires. If this value is the equivalent of 20 minutes, the object will expire and be removed from the cache 20 minutes after it was last accessed. The cost of the object relative to other items stored in the cache, as expressed by the **System.Web.Caching.CacheItemPriority** enumeration. This value is used by the cache when it evicts objects; objects with a lower cost are removed from the cache before objects with a higher cost. A delegate that, if provided, will be called when an object is removed from the cache. You can use this to notify applications when their objects are deleted from the cache.

Remove

[C#] public object Remove(string key);

[C++] public: Object* Remove(String* key);

[VB] Public Function Remove(ByVal key As String) As Object

[JScript] public function Remove(key : String) : Object;

Description

Removes the specified item from the application's **System.Web.Caching.Cache** object.

Return Value: The item removed from the **Cache** . If the value in the key parameter is not found, returns **null** . A **System.String** identifier for the cache item to remove.

IEnumerable.GetEnumerator

[C#] IEnumerator IEnumerable.GetEnumerator();

[C++] IEnumerator* IEnumerable::GetEnumerator();

[VB] Function GetEnumerator() As IEnumerator Implements IEnumerable.GetEnumerator

[JScript] function IEnumerable.GetEnumerator() : IEnumerator;

CacheDependency class (System.Web.Caching)

ToString

Description

Tracks cache dependencies, which can be files, directories, or keys to other objects in your application's **System.Web.Caching.Cache** . This class cannot be inherited.

You can add items with dependencies to your application's cache with the **System.Web.Caching.Cache.Add(System.String,System.Object,System.Web.Caching.CacheDependency,System.DateTime,System.TimeSpan,System.Web.Caching.CacheItemPriority,System.Web.Caching.CacheItemRemovedCallback)** and **System.Web.Caching.Cache.Insert(System.String,System.Object)** methods.

CacheDependency

Example Syntax:

ToString

[C#] public CacheDependency(string filename);

[C++] public: CacheDependency(String* filename);

[VB] Public Sub New(ByVal filename As String)

[JScript] public function CacheDependency(filename : String); Initializes a new instance of the **System.Web.Caching.CacheDependency** class.

Description

Initializes a new instance of the **System.Web.Caching.CacheDependency** class that monitors a file or directory for changes. The path to a file or directory that the cached object is dependent upon. When this resource changes, the cached object becomes obsolete and is removed from the cache.

CacheDependency

Example Syntax:

ToString

[C#] public CacheDependency(string[] filenames);

[C++] public: CacheDependency(String* filenames __gc[]);

[VB] Public Sub New(ByVal filenames() As String)

[JScript] public function CacheDependency(filenames : String[]);

Description

Initializes a new instance of the **System.Web.Caching.CacheDependency** class that monitors an array of file paths (to files or directories) for changes.

If any of the files or directories in the array were to change or be removed from the array, the cached item becomes obsolete and is removed from the application's **System.Web.Caching.Cache** object. An array of file paths (to files or directories) that the cached object is dependent upon. When any of these resources change, the cached object becomes obsolete and is removed from the cache.

CacheDependency

Example Syntax:

ToString

[C#] public CacheDependency(string filename, DateTime start);

[C++] public: CacheDependency(String* filename, DateTime start);

[VB] Public Sub New(ByVal filename As String, ByVal start As DateTime)

[JScript] public function CacheDependency(filename : String, start : DateTime);

Description

Initializes a new instance of the **System.Web.Caching.CacheDependency** class that monitors a file or directory for changes and indicates when change tracking is to begin. The path to a file or directory that the cached object is dependent upon. When this resource changes, the cached object becomes obsolete and is removed from the cache. The time when change tracking begins.

CacheDependency

Example Syntax:

ToString

[C#] public CacheDependency(string[] filenames, DateTime start);

[C++] public: CacheDependency(String* filenames __gc[], DateTime start);

[VB] Public Sub New(ByVal filenames() As String, ByVal start As DateTime)

[JScript] public function CacheDependency(filenames : String[], start : DateTime);

Description

Initializes a new instance of the **System.Web.Caching.CacheDependency** class that monitors an array of file paths (to files or directories) for changes and specifies a time when change monitoring begins. An array of file paths (to files or directories) that the cached object is dependent upon. When any of these resources change, the cached object becomes obsolete and is removed from the cache. The time when change tracking begins.

CacheDependency

Example Syntax:

ToString

```
[C#] public CacheDependency(string[] filenames, string[] cachekeys);
[C++] public: CacheDependency(String* filenames __gc[], String* cachekeys
__gc[]);
[VB] Public Sub New(ByVal filenames() As String, ByVal cachekeys() As String)
[JScript] public function CacheDependency(filenames : String[], cachekeys :
String[]);
```

Description

Initializes a new instance of the **System.Web.Caching.CacheDependency** class that monitors an array of file paths (to files or directories), an array of cache keys, or both for changes. An array of file paths (to files or directories) that the cached object is dependent upon. When any of these resources change, the cached object becomes obsolete and is removed from the cache. An array of cache keys that the new object monitors for changes. When any of these cache keys change, the cached object associated with this dependency object becomes obsolete and is removed from the cache.

CacheDependency

Example Syntax:

ToString

```
[C#] public CacheDependency(string[] filenames, string[] cachekeys,
CacheDependency dependency);
[C++] public: CacheDependency(String* filenames __gc[], String* cachekeys
__gc[], CacheDependency* dependency);
```

[VB] Public Sub New(ByVal filenames() As String, ByVal cachekeys() As String, ByVal dependency As CacheDependency)

[JScript] public function CacheDependency(filenames : String[], cachekeys : String[], dependency : CacheDependency);

Description

Initializes a new instance of the **System.Web.Caching.CacheDependency** class that monitors an array of file paths (to files or directories), an array of cache keys, or both for changes. It also makes itself dependent upon a separate instance of the **CacheDependency** class. An array of file paths (to files or directories) that the cached object is dependent upon. When any of these resources change, the cached object becomes obsolete and is removed from the cache. An array of cache keys that the new object monitors for changes. When any of these cache keys change, the cached object associated with this dependency object becomes obsolete and is removed from the cache. Another instance of the **CacheDependency** class that this instance is dependent upon.

CacheDependency

Example Syntax:

ToString

[C#] public CacheDependency(string[] filenames, string[] cachekeys, DateTime start);

[C++] public: CacheDependency(String* filenames __gc[], String* cachekeys __gc[], DateTime start);

[VB] Public Sub New(ByVal filenames() As String, ByVal cachekeys() As String, ByVal start As DateTime)

[JScript] public function CacheDependency(filenames : String[], cachekeys : String[], start : DateTime);

Description

Initializes a new instance of the **System.Web.Caching.CacheDependency** class that monitors an array of file paths (to files or directories), an array of cache keys, or both for changes. An array of file paths (to files or directories) that the cached object is dependent upon. When any of these resources change, the cached object becomes obsolete and is removed from the cache. An array of cache keys that the new object monitors for changes. When any of these cache keys change, the cached object associated with this dependency object becomes obsolete and is removed from the cache. The time when change tracking begins.

CacheDependency

Example Syntax:

ToString

[C#] public CacheDependency(string[] filenames, string[] cachekeys, CacheDependency dependency, DateTime start);

[C++] public: CacheDependency(String* filenames __gc[], String* cachekeys __gc[], CacheDependency* dependency, DateTime start);

[VB] Public Sub New(ByVal filenames() As String, ByVal cachekeys() As String, ByVal dependency As CacheDependency, ByVal start As DateTime)

[JScript] public function CacheDependency(filenames : String[], cachekeys : String[], dependency : CacheDependency, start : DateTime);

Description

Initializes a new instance of the **System.Web.Caching.CacheDependency** class that monitors an array of file paths (to files or directories), an array of cache keys, or both for changes. It also makes itself dependent upon another instance of the **CacheDependency** class and a time when the change monitoring begins. An array of file paths (to files or directories) that the cached object is dependent upon. When any of these resources change, the cached object becomes obsolete and is removed from the cache. An array of cache keys that the new object monitors for changes. When any of these cache keys change, the cached object associated with this dependency object becomes obsolete and is removed from the cache. Another instance of the **CacheDependency** class that this instance is dependent upon. The time when change tracking begins.

Dispose

[C#] public void Dispose();

[C++] public: __sealed void Dispose();

[VB] NotOverridable Public Sub Dispose()

[JScript] public function Dispose();

Description

Releases the resources used by the **System.Web.Caching.CacheDependency** object.

CacheItemPriority enumeration (System.Web.Caching)

ToString

Description

Specifies the relative priority of items stored in the **System.Web.Caching.Cache** .

When the Web server hosting an ASP.NET application runs low on memory, the **Cache** selectively purges items to free system memory. When an item is added to the cache, you can assign it a relative priority compared to the other items stored in the cache. Items you assign higher priority values to are less likely to be deleted from the cache when the server is processing a large number of requests, while items you assign lower priority values are more likely to be deleted. The default is **Normal** .

ToString

[C#] public const CacheItemPriority AboveNormal;

[C++] public: const CacheItemPriority AboveNormal;

[VB] Public Const AboveNormal As CacheItemPriority

[JScript] public var AboveNormal : CacheItemPriority;

Description

Cache items with this priority level are less likely to be deleted as the server frees system memory than those assigned a **Normal** priority.

ToString

[C#] public const CacheItemPriority BelowNormal;

[C++] public: const CacheItemPriority BelowNormal;

[VB] Public Const BelowNormal As CacheItemPriority

[JScript] public var BelowNormal : CacheItemPriority;

Description

Cache items with this priority level are more likely to be deleted from the cache as the server frees system memory than items assigned a **Normal** priority.

ToString

[C#] public const CacheItemPriority Default;

[C++] public: const CacheItemPriority Default;

[VB] Public Const Default As CacheItemPriority

[JScript] public var Default : CacheItemPriority;

Description

The default value for a cached item's priority is **Normal** .

ToString

[C#] public const CacheItemPriority High;

[C++] public: const CacheItemPriority High;

[VB] Public Const High As CacheItemPriority

[JScript] public var High : CacheItemPriority;

Description

Cache items with this priority level are the least likely to be deleted from the cache as the server frees system memory.

ToString

```
[C#] public const CacheItemPriority Low;
[C++] public: const CacheItemPriority Low;
[VB] Public Const Low As CacheItemPriority
[JScript] public var Low : CacheItemPriority;
```

Description

Cache items with this priority level are the most likely to be deleted from the cache as the server frees system memory.

ToString

```
[C#] public const CacheItemPriority Normal;
[C++] public: const CacheItemPriority Normal;
[VB] Public Const Normal As CacheItemPriority
[JScript] public var Normal : CacheItemPriority;
```

Description

Cache items with this priority level are likely to be deleted from the cache as the server frees system memory only after those items with **Low** or **BelowNormal** priority. This is the default.

ToString

[C#] public const CacheItemPriority NotRemovable;

[C++] public: const CacheItemPriority NotRemovable;

[VB] Public Const NotRemovable As CacheItemPriority

[JScript] public var NotRemovable : CacheItemPriority;

Description

The cache items with this priority level will not be deleted from the cache as the server frees system memory.

CacheItemRemovedCallback delegate (System.Web.Caching)

ToString

Description

Defines a callback method for notifying applications when a cached item is removed from the **System.Web.Caching.Cache** . The index location for the item removed from the cache. The **System.Object** item removed from the cache. The reason the item was removed from the cache, as specified by the **System.Web.Caching.CacheItemRemovedReason** enumeration.

CacheItemRemovedReason enumeration (System.Web.Caching)

ToString

Description

Specifies the reason an item was removed from the **System.Web.Caching.Cache** .

This enumeration works in concert with the **System.Web.Caching.CacheItemRemovedCallback** delegate to notify your ASP.NET applications when and why an object was removed from the **System.Web.Caching.Cache** .

ToString

[C#] public const CacheItemRemovedReason DependencyChanged;

[C++] public: const CacheItemRemovedReason DependencyChanged;

[VB] Public Const DependencyChanged As CacheItemRemovedReason

[JScript] public var DependencyChanged : CacheItemRemovedReason;

Description

The item is removed from the cache because a file or key dependency changed.

ToString

[C#] public const CacheItemRemovedReason Expired;

[C++] public: const CacheItemRemovedReason Expired;

[VB] Public Const Expired As CacheItemRemovedReason

[JScript] public var Expired : CacheItemRemovedReason;

Description

The item is removed from the cache because it expired.

ToString

[C#] public const CacheItemRemovedReason Removed;

[C++] public: const CacheItemRemovedReason Removed;

[VB] Public Const Removed As CacheItemRemovedReason

[JScript] public var Removed : CacheItemRemovedReason;

Description

The item is removed fro

System.Web.Configuration

Description

The System.Web.Configuration namespace contains classes that are used to set up ASP.NET configuration.

AuthenticationMode enumeration (System.Web.Configuration)

Description

Provides enumerated values that specify the authentication mode for an application.

[C#] public const AuthenticationMode Forms;

[C++] public: const AuthenticationMode Forms;

[VB] Public Const Forms As AuthenticationMode

[JScript] public var Forms : AuthenticationMode;

Description

Specifies ASP.NET forms-based authentication as the default authentication mode .

[C#] public const AuthenticationMode None;

[C++] public: const AuthenticationMode None;

[VB] Public Const None As AuthenticationMode

[JScript] public var None : AuthenticationMode;

Description

Specifies no authentication. Only anonymous users are expected. Also, applications can handle events to provide their own authentication.

[C#] public const AuthenticationMode Passport;

[C++] public: const AuthenticationMode Passport;

[VB] Public Const Passport As AuthenticationMode

[JScript] public var Passport : AuthenticationMode;

Description

Specifies Microsoft Passport authentication as the default authentication mode.

[C#] public const AuthenticationMode Windows;

[C++] public: const AuthenticationMode Windows;

[VB] Public Const Windows As AuthenticationMode

[JScript] public var Windows : AuthenticationMode;

Description

Specifies Windows authentication as the default authentication mode. Use this mode when using any form of Internet Information Services (IIS) authentication: Basic, Digest, Integrated Windows authentication (NTLM/Kerberos), or certificates.

Methods:

ClientTargetSectionHandler class (System.Web.Configuration)

ToString

Description

Constructors:

ClientTargetSectionHandler

Example Syntax:

ToString

[C#] public ClientTargetSectionHandler();

[C++] public: ClientTargetSectionHandler();

[VB] Public Sub New()

[JScript] public function ClientTargetSectionHandler();

Properties:

KeyAttributeName

ToString

[C#] protected override string KeyAttributeName {get;}

[C++] protected: __property virtual String* get_KeyAttributeName();

[VB] Overrides Protected ReadOnly Property KeyAttributeName As String

[JScript] protected function get KeyAttributeName() : String;

Description

Gets the name of the key attribute tag. This property is overidden by derived classes to change the name of the key attribute tag. The default is "key".

ValueAttributeName

ToString

[C#] protected override string ValueAttributeName {get;}

[C++] protected: __property virtual String* get_ValueAttributeName();

[VB] Overrides Protected ReadOnly Property ValueAttributeName As String

[JScript] protected function get ValueAttributeName() : String;

Description

Gets the name of the value tag. This property may be overidden by derived classes to change the name of the value tag. The default is "value".

FormsAuthPasswordFormat enumeration (System.Web.Configuration)

ToString

Description

Provides enumerated values that specify the encryption format for storing passwords.

ToString

[C#] public const FormsAuthPasswordFormat Clear;

[C++] public: const FormsAuthPasswordFormat Clear;

[VB] Public Const Clear As FormsAuthPasswordFormat

[JScript] public var Clear : FormsAuthPasswordFormat;

Description

Specifies that passwords are not encrypted.

ToString

[C#] public const FormsAuthPasswordFormat MD5;

[C++] public: const FormsAuthPasswordFormat MD5;

[VB] Public Const MD5 As FormsAuthPasswordFormat

[JScript] public var MD5 : FormsAuthPasswordFormat;

Description

Specifies that passwords are encrypted using the MD5 hash algorithm.

ToString

[C#] public const FormsAuthPasswordFormat SHA1;

[C++] public: const FormsAuthPasswordFormat SHA1;

[VB] Public Const SHA1 As FormsAuthPasswordFormat

[JScript] public var SHA1 : FormsAuthPasswordFormat;

Description

Specifies that passwords are encrypted using the SHA1 hash algorithm.

FormsProtectionEnum enumeration (System.Web.Configuration)

ToString

Description

Provides enumerated values that are used to specify the forms protection method.

ToString

[C#] public const FormsProtectionEnum All;

[C++] public: const FormsProtectionEnum All;

[VB] Public Const All As FormsProtectionEnum

[JScript] public var All : FormsProtectionEnum;

Description

Specifies that the application uses both data validation and encryption to protect the cookie. This option uses the configured data validation algorithm (based on the element). Triple-DES (3DES) is used for encryption, if it is available and if the key is at least 48 bytes longs.

ToString

```
[C#] public const FormsProtectionEnum Encryption;
[C++] public: const FormsProtectionEnum Encryption;
[VB] Public Const Encryption As FormsProtectionEnum
[JScript] public var Encryption : FormsProtectionEnum;
```

Description

Specifies that the cookie is encrypted using Triple-DES or DES, but data validation is not performed on the cookie. Cookies used this way might be subject to plain-text security attacks.

ToString

```
[C#] public const FormsProtectionEnum None;
[C++] public: const FormsProtectionEnum None;
[VB] Public Const None As FormsProtectionEnum
[JScript] public var None : FormsProtectionEnum;
```

Description

Specifies that both encryption and validation are disabled for sites that are using cookies only for personalization and have weaker security requirements.

Using cookies in this manner is not recommended; however, it is the least resource-intensive way to enable personalization using the .NET Framework.

ToString

```
[C#] public const FormsProtectionEnum Validation;
[C++] public: const FormsProtectionEnum Validation;
[VB] Public Const Validation As FormsProtectionEnum
[JScript] public var Validation : FormsProtectionEnum;
```

Description

Specifies that the application uses a validation scheme to verify that the contents of an encrypted cookie have not been altered in transit. The cookie is created by concatenating a validation key with the cookie data, computing a Message Authentication Code (MAC), and appending the MAC to the outgoing cookie.

HttpCapabilitiesBase class (System.Web.Configuration)

ToString

Description

Defines the base class for client browser capabilities.

HttpCapabilitiesBase

Example Syntax:

ToString

```
[C#] public HttpCapabilitiesBase();
[C++] public: HttpCapabilitiesBase();
[VB] Public Sub New()
[JScript] public function HttpCapabilitiesBase();
```

Item

ToString

```
[C#] public virtual string this[string key] {get;}
[C++] public: __property virtual String* get_Item(String* key);
[VB] Overridable Public Default ReadOnly Property Item(ByVal key As String)
As String
[JScript] returnValue = HttpCapabilitiesBaseObject.Item(key);
```

Description

Allows access to individual dictionary values. The name of the dictionary value to retrieve.

GetConfigCapabilities

```
[C#] public static HttpCapabilitiesBase GetConfigCapabilities(string configKey,
HttpRequest request);
[C++] public: static HttpCapabilitiesBase* GetConfigCapabilities(String*
configKey, HttpRequest* request);
[VB] Public Shared Function GetConfigCapabilities(ByVal configKey As String,
ByVal request As HttpRequest) As HttpCapabilitiesBase
```

[JScript] public static function GetConfigCapabilities(configKey : String, request : HttpRequest) : HttpCapabilitiesBase;

Description

Returns individual browser capabilities for the current reqest. The name of the requested browser capability. The current **System.Web.HttpContext.Request** .

Init

[C#] protected virtual void Init();

[C++] protected: virtual void Init();

[VB] Overridable Protected Sub Init()

System.Web.Hosting

Description

AppDomainFactory class (System.Web.Hosting)

Description

Constructors:

AppDomainFactory

Example Syntax:

[C#] public AppDomainFactory();

[C++] public: AppDomainFactory();

[VB] Public Sub New()

[JScript] public function AppDomainFactory();

Methods:

Create

[C#] public object Create(string module, string typeName, string appId, string appPath, string strUrlOfAppOrigin, int iZone);

[C++] public: __sealed Object* Create(String* module, String* typeName, String* appId, String* appPath, String* strUrlOfAppOrigin, int iZone);

[VB] NotOverridable Public Function Create(ByVal module As String, ByVal typeName As String, ByVal appId As String, ByVal appPath As String, ByVal strUrlOfAppOrigin As String, ByVal iZone As Integer) As Object

[JScript] public function Create(module : String, typeName : String, appId : String, appPath : String, strUrlOfAppOrigin : String, iZone : int) : Object;

Description

ApplicationHost class (System.Web.Hosting)

ToString

Description

CreateApplicationHost

[C#] public static object CreateApplicationHost(Type hostType, string virtualDir, string physicalDir);

[C++] public: static Object* CreateApplicationHost(Type* hostType, String* virtualDir, String* physicalDir);

[VB] Public Shared Function CreateApplicationHost(ByVal hostType As Type, ByVal virtualDir As String, ByVal physicalDir As String) As Object

[JScript] public static function CreateApplicationHost(hostType : Type, virtualDir : String, physicalDir : String) : Object;

Description

IAppDomainFactory interface (System.Web.Hosting)

ToString

Description

Create

[C#] object Create(in string module, in string typeName, in string appId, in string appPath, in string strUrlOfAppOrigin, in int iZone);

[C++] Object* Create(__in String* module, __in String* typeName, __in String* appId, __in String* appPath, __in String* strUrlOfAppOrigin, __in int iZone);

[VB] Function Create(ByVal module As String, ByVal typeName As String, ByVal appId As String, ByVal appPath As String, ByVal strUrlOfAppOrigin As String, ByVal iZone As Integer) As Object

[JScript] function Create(in module : String, in typeName : String, in appId : String, in appPath : String, in strUrlOfAppOrigin : String, in iZone : int) : Object;

Description

IISAPIRuntime interface (System.Web.Hosting)

Create

Description

DoGCCollect

[C#] void DoGCCollect();

[C++] void DoGCCollect();

[VB] Sub DoGCCollect()

[JScript] function DoGCCollect();

Description

ProcessRequest

```
[C#] int ProcessRequest(in IntPtr ecb, in int useProcessModel);
[C++] int ProcessRequest(__in IntPtr ecb, __in int useProcessModel);
[VB] Function ProcessRequest(ByVal ecb As IntPtr, ByVal useProcessModel As Integer) As Integer
[JScript] function ProcessRequest(in ecb : IntPtr, in useProcessModel : int) : int;
```

Description

StartProcessing

```
[C#] void StartProcessing();
[C++] void StartProcessing();
[VB] Sub StartProcessing()
[JScript] function StartProcessing();
```

Description

StopProcessing

```
[C#] void StopProcessing();
```

[C++] void StopProcessing();

[VB] Sub StopProcessing()

[JScript] function StopProcessing();

Description

ISAPIRuntime class (System.Web.Hosting)

StopProcessing

Description

ISAPIRuntime

Example Syntax:

StopProcessing

[C#] public ISAPIRuntime();

[C++] public: ISAPIRuntime();

[VB] Public Sub New()

[JScript] public function ISAPIRuntime();

DoGCCollect

[C#] public void DoGCCollect();

[C++] public: __sealed void DoGCCollect();

[VB] NotOverridable Public Sub DoGCCollect()

```
[JScript] public function DoGCCollect();
```

Description

ProcessRequest

```
[C#] public int ProcessRequest(IntPtr ecb, int iWRType);
[C++] public: __sealed int ProcessRequest(IntPtr ecb, int iWRType);
[VB] NotOverridable Public Function ProcessRequest(ByVal ecb As IntPtr, ByVal iWRType As Integer) As Integer
[JScript] public function ProcessRequest(ecb : IntPtr, iWRType : int) : int;
```

Description

StartProcessing

```
[C#] public void StartProcessing();
[C++] public: __sealed void StartProcessing();
[VB] NotOverridable Public Sub StartProcessing()
[JScript] public function StartProcessing();
```

Description

StopProcessing

[C#] public void StopProcessing();

[C++] public: __sealed void StopProcessing();

[VB] NotOverridable Public Sub StopProcessing()

[JScript] public function StopProcessing();

Description

SimpleWorkerRequest class (System.Web.Hosting)

ToString

Description

SimpleWorkerRequest

Example Syntax:

ToString

[C#] public SimpleWorkerRequest(string page, string query, TextWriter output);

[C++] public: SimpleWorkerRequest(String* page, String* query, TextWriter* output);

[VB] Public Sub New(ByVal page As String, ByVal query As String, ByVal output As TextWriter)

[JScript] public function SimpleWorkerRequest(page : String, query : String, output : TextWriter);

Description

SimpleWorkerRequest

Example Syntax:

ToString

[C#] public SimpleWorkerRequest(string appVirtualDir, string appPhysicalDir, string page, string query, TextWriter output);

[C++] public: SimpleWorkerRequest(String* appVirtualDir, String* appPhysicalDir, String* page, String* query, TextWriter* output);

[VB] Public Sub New(ByVal appVirtualDir As String, ByVal appPhysicalDir As String, ByVal page As String, ByVal query As String, ByVal output As TextWriter)

[JScript] public function SimpleWorkerRequest(appVirtualDir : String, appPhysicalDir : String, page : String, query : String, output : TextWriter);

Description

Properties:

MachineConfigPath

ToString

[C#] public override string MachineConfigPath {get;}

[C++] public: __property virtual String* get_MachineConfigPath();

[VB] Overrides Public ReadOnly Property MachineConfigPath As String

[JScript] public function get MachineConfigPath() : String;

Description

MachineInstallDirectory

ToString

[C#] public override string MachineInstallDirectory {get;}

[C++] public: __property virtual String* get_MachineInstallDirectory();

[VB] Overrides Public ReadOnly Property MachineInstallDirectory As String

[JScript] public function get MachineInstallDirectory() : String;

Description

EndOfRequest

[C#] public override void EndOfRequest();

[C++] public: void EndOfRequest();

[VB] Overrides Public Sub EndOfRequest()

[JScript] public override function EndOfRequest();

Description

FlushResponse

```
[C#] public override void FlushResponse(bool finalFlush);
[C++] public: void FlushResponse(bool finalFlush);
[VB] Overrides Public Sub FlushResponse(ByVal finalFlush As Boolean)
[JScript] public override function FlushResponse(finalFlush : Boolean);
```

Description

GetAppPath

```
[C#] public override string GetAppPath();
[C++] public: String* GetAppPath();
[VB] Overrides Public Function GetAppPath() As String
[JScript] public override function GetAppPath() : String;
```

Description

GetAppPathTranslated

```
[C#] public override string GetAppPathTranslated();
[C++] public: String* GetAppPathTranslated();
[VB] Overrides Public Function GetAppPathTranslated() As String
[JScript] public override function GetAppPathTranslated() : String;
```

Description

GetFilePath

[C#] public override string GetFilePath();

[C++] public: String* GetFilePath();

[VB] Overrides Public Function GetFilePath() As String

[JScript] public override function GetFilePath() : String;

Description

GetFilePathTranslated

[C#] public override string GetFilePathTranslated();

[C++] public: String* GetFilePathTranslated();

[VB] Overrides Public Function GetFilePathTranslated() As String

[JScript] public override function GetFilePathTranslated() : String;

Description

GetHttpVerbName

[C#] public override string GetHttpVerbName();

[C++] public: String* GetHttpVerbName();

[VB] Overrides Public Function GetHttpVerbName() As String

[JScript] public override function GetHttpVerbName() : String;

Description

GetHttpVersion

```
[C#] public override string GetHttpVersion();
[C++] public: String* GetHttpVersion();
[VB] Overrides Public Function GetHttpVersion() As String
[JScript] public override function GetHttpVersion() : String;
```

Description

GetLocalAddress

```
[C#] public override string GetLocalAddress();
[C++] public: String* GetLocalAddress();
[VB] Overrides Public Function GetLocalAddress() As String
[JScript] public override function GetLocalAddress() : String;
```

Description

GetLocalPort

```
[C#] public override int GetLocalPort();
[C++] public: int GetLocalPort();
```

[VB] Overrides Public Function GetLocalPort() As Integer

[JScript] public override function GetLocalPort() : int;

Description

GetPathInfo

[C#] public override string GetPathInfo();

[C++] public: String* GetPathInfo();

[VB] Overrides Public Function GetPathInfo() As String

[JScript] public override function GetPathInfo() : String;

Description

GetQueryString

[C#] public override string GetQueryString();

[C++] public: String* GetQueryString();

[VB] Overrides Public Function GetQueryString() As String

[JScript] public override function GetQueryString() : String;

Description

GetRawUrl

```
[C#] public override string GetRawUrl();
[C++] public: String* GetRawUrl();
[VB] Overrides Public Function GetRawUrl() As String
[JScript] public override function GetRawUrl() : String;
```

Description

GetRemoteAddress

```
[C#] public override string GetRemoteAddress();
[C++] public: String* GetRemoteAddress();
[VB] Overrides Public Function GetRemoteAddress() As String
[JScript] public override function GetRemoteAddress() : String;
```

Description

GetRemotePort

```
[C#] public override int GetRemotePort();
[C++] public: int GetRemotePort();
[VB] Overrides Public Function GetRemotePort() As Integer
[JScript] public override function GetRemotePort() : int;
```

Description

GetServerVariable

[C#] public override string GetServerVariable(string name);

[C++] public: String* GetServerVariable(String* name);

[VB] Overrides Public Function GetServerVariable(ByVal name As String) As String

[JScript] public override function GetServerVariable(name : String) : String;

Description

GetUriPath

[C#] public override string GetUriPath();

[C++] public: String* GetUriPath();

[VB] Overrides Public Function GetUriPath() As String

[JScript] public override function GetUriPath() : String;

Description

GetUserToken

[C#] public override IntPtr GetUserToken();

[C++] public: IntPtr GetUserToken();

[VB] Overrides Public Function GetUserToken() As IntPtr

[JScript] public override function GetUserToken() : IntPtr;

Description

MapPath

[C#] public override string MapPath(string path);

[C++] public: String* MapPath(String* path);

[VB] Overrides Public Function MapPath(ByVal path As String) As String

[JScript] public override function MapPath(path : String) : String;

Description

SendKnownResponseHeader

[C#] public override void SendKnownResponseHeader(int index, string value);

[C++] public: void SendKnownResponseHeader(int index, String* value);

[VB] Overrides Public Sub SendKnownResponseHeader(ByVal index As Integer, ByVal value As String)

[JScript] public override function SendKnownResponseHeader(index : int, value : String);

Description

SendResponseFromFile

```
[C#] public override void SendResponseFromFile(IntPtr handle, long offset, long length);
[C++] public: void SendResponseFromFile(IntPtr handle, __int64 offset, __int64 length);
[VB] Overrides Public Sub SendResponseFromFile(ByVal handle As IntPtr, ByVal offset As Long, ByVal length As Long)
[JScript] public override function SendResponseFromFile(handle : IntPtr, offset : long, length : long);
```

Description

SendResponseFromFile

```
[C#] public override void SendResponseFromFile(string filename, long offset, long length);
[C++] public: void SendResponseFromFile(String* filename, __int64 offset, __int64 length);
[VB] Overrides Public Sub SendResponseFromFile(ByVal filename As String, ByVal offset As Long, ByVal length As Long)
[JScript] public override function SendResponseFromFile(filename : String, offset : long, length : long);
```

Description

SendResponseFromMemory

[C#] public override void SendResponseFromMemory(byte[] data, int length);

[C++] public: void SendResponseFromMemory(unsigned char data __gc[], int length);

[VB] Overrides Public Sub SendResponseFromMemory(ByVal data() As Byte, ByVal length As Integer)

[JScript] public override function SendResponseFromMemory(data : Byte[], length : int);

Description

SendStatus

[C#] public override void SendStatus(int statusCode, string statusDescription);

[C++] public: void SendStatus(int statusCode, String* statusDescription);

[VB] Overrides Public Sub SendStatus(ByVal statusCode As Integer, ByVal statusDescription As String)

[JScript] public override function SendStatus(statusCode : int, statusDescription : String);

System.Web.Mail

Description

The System.Web.Mail namespace contains classes that enable you to construct and send an email attachment using the SMTP mail service built into Microsoft Windows 2000.

MailAttachment class (System.Web.Mail)

Description

Provides properties and methods to construct an email attachment.

Constructors:

MailAttachment

Example Syntax:

[C#] public MailAttachment(string filename);

[C++] public: MailAttachment(String* filename);

[VB] Public Sub New(ByVal filename As String)

[JScript] public function MailAttachment(filename : String); Constructs an email attachment object.

Description

Constructs a **MailAttachment** object and specifies the file name of the attachment. Sets the **System.Text.Encoding** property to be UUEncode by default. Name of the attached file.

MailAttachment

Example Syntax:

[C#] public MailAttachment(string filename, MailEncoding encoding);

[C++] public: MailAttachment(String* filename, MailEncoding encoding);

[VB] Public Sub New(ByVal filename As String, ByVal encoding As MailEncoding)

[JScript] public function MailAttachment(filename : String, encoding : MailEncoding);

Description

Constructs an email attachment object and specifies the file name and encoding of the attachment. Name of the attached file. The type of **System.Web.Mail.MailEncoding** used by the attachment.

Properties:

Encoding

[C#] public MailEncoding Encoding {get;}

[C++] public: __property MailEncoding get_Encoding();

[VB] Public ReadOnly Property Encoding As MailEncoding

[JScript] public function get Encoding() : MailEncoding;

Description

Indicates the type of encoding used to encode the email attachment.

Filename

[C#] public string Filename {get;}

[C++] public: __property String* get_Filename();

[VB] Public ReadOnly Property Filename As String

[JScript] public function get Filename() : String;

Description

Indicates the name of the file to attach to the email.

Methods:

MailEncoding enumeration (System.Web.Mail)

ToString

Description

Provides enumered values for email encoding.

ToString

[C#] public const MailEncoding Base64;

[C++] public: const MailEncoding Base64;

[VB] Public Const Base64 As MailEncoding

[JScript] public var Base64 : MailEncoding;

Description

Specifies that the email message uses Base64 encoding.

ToString

[C#] public const MailEncoding UUEncode;

[C++] public: const MailEncoding UUEncode;

[VB] Public Const UUEncode As MailEncoding

[JScript] public var UUEncode : MailEncoding;

Description

Specifies that the email message uses UUEncode encoding.

MailFormat enumeration (System.Web.Mail)

ToString

Description

Provides enumerated values for email format.

ToString

[C#] public const MailFormat Html;

[C++] public: const MailFormat Html;

[VB] Public Const Html As MailFormat

[JScript] public var Html : MailFormat;

Description

Specifies that email format is HTML.

ToString

[C#] public const MailFormat Text;

[C++] public: const MailFormat Text;

[VB] Public Const Text As MailFormat

[JScript] public var Text : MailFormat;

Description

Specifies that email format is plain text.

MailMessage class (System.Web.Mail)

ToString

Description

Provides properties and methods to construct an email message.

MailMessage

Example Syntax:

ToString

[C#] public MailMessage();

[C++] public: MailMessage();

[VB] Public Sub New()

[JScript] public function MailMessage();

Attachments

ToString

[C#] public IList Attachments {get;}

[C++] public: __property IList* get_Attachments();

[VB] Public ReadOnly Property Attachments As IList

[JScript] public function get Attachments() : IList;

Description

Specifies the list of attachments that is transmitted with the message.

Bcc

ToString

[C#] public string Bcc {get; set;}

[C++] public: __property String* get_Bcc();public: __property void set_Bcc(String*);

[VB] Public Property Bcc As String

[JScript] public function get Bcc() : String;public function set Bcc(String);

Description

Gets or sets a semicolon-delimited list of email addresses that receive a Blind Carbon Copy (BCC) copy of the email message.

The primary and carbon copy **System.Web.Mail.MailMessage.Cc** recipients do not see addresses included in the **Bcc** field.

Body

ToString

[C#] public string Body {get; set;}

[C++] public: __property String* get_Body();public: __property void set_Body(String*);

[VB] Public Property Body As String

[JScript] public function get Body() : String;public function set Body(String);

Description

Gets or sets the body of the email message.

BodyEncoding

ToString

[C#] public Encoding BodyEncoding {get; set;}

[C++] public: __property Encoding* get_BodyEncoding();public: __property void set_BodyEncoding(Encoding*);

[VB] Public Property BodyEncoding As Encoding

[JScript] public function get BodyEncoding() : Encoding;public function set BodyEncoding(Encoding);

Description

Gets or sets the encoding type of the email body.

BodyFormat

ToString

[C#] public MailFormat BodyFormat {get; set;}

[C++] public: __property MailFormat get_BodyFormat();public: __property void set_BodyFormat(MailFormat);

[VB] Public Property BodyFormat As MailFormat

[JScript] public function get BodyFormat() : MailFormat;public function set BodyFormat(MailFormat);

Description

Gets or sets the content type of the email body.

Cc

ToString

[C#] public string Cc {get; set;}

[C++] public: __property String* get_Cc();public: __property void set_Cc(String*);

[VB] Public Property Cc As String

[JScript] public function get Cc() : String;public function set Cc(String);

Description

Gets or sets a semicolon-delimited list of email addresses that receive a Carbon Copy (CC) of the email message.

From

ToString

[C#] public string From {get; set;}

[C++] public: __property String* get_From();public: __property void set_From(String*);

[VB] Public Property From As String

[JScript] public function get From() : String;public function set From(String);

Description

Gets or sets the email address of the sender.

Headers

ToString

```
[C#] public IDictionary Headers {get;}
[C++] public: __property IDictionary* get_Headers();
[VB] Public ReadOnly Property Headers As IDictionary
[JScript] public function get Headers() : IDictionary;
```

Description

Specifies the custom headers that are transmitted with the email message.

Priority

ToString

```
[C#] public MailPriority Priority {get; set;}
[C++] public: __property MailPriority get_Priority();public: __property void
set_Priority(MailPriority);
[VB] Public Property Priority As MailPriority
[JScript] public function get Priority() : MailPriority;public function set
Priority(MailPriority);
```

Description

Gets or sets the priority of the email message.

Subject

ToString

[C#] public string Subject {get; set;}

[C++] public: __property String* get_Subject();public: __property void set_Subject(String*);

[VB] Public Property Subject As String

[JScript] public function get Subject() : String;public function set Subject(String);

Description

Gets or sets the subject line of the email message.

To

ToString

[C#] public string To {get; set;}

[C++] public: __property String* get_To();public: __property void set_To(String*);

[VB] Public Property To As String

[JScript] public function get To() : String;public function set To(String);

Description

Gets or sets the email address of the recipient.

UrlContentBase

ToString

[C#] public string UrlContentBase {get; set;}

[C++] public: __property String* get_UrlContentBase();public: __property void set_UrlContentBase(String*);

[VB] Public Property UrlContentBase As String

[JScript] public function get UrlContentBase() : String;public function set UrlContentBase(String);

Description

Gets or sets the URL base of all relative URLs used within the HTML encoded body.

UrlContentLocation

ToString

[C#] public string UrlContentLocation {get; set;}

[C++] public: __property String* get_UrlContentLocation();public: __property void set_UrlContentLocation(String*);

[VB] Public Property UrlContentLocation As String

[JScript] public function get UrlContentLocation() : String;public function set UrlContentLocation(String);

Description

MailPriority enumeration (System.Web.Mail)

ToString

Description

Provides enumerated values for email priority.

ToString

[C#] public const MailPriority High;

[C++] public: const MailPriority High;

[VB] Public Const High As MailPriority

[JScript] public var High : MailPriority;

Description

Specifies that the email message has high priority.

ToString

[C#] public const MailPriority Low;

[C++] public: const MailPriority Low;

[VB] Public Const Low As MailPriority

[JScript] public var Low : MailPriority;

Description

Specifies that the email message has low priority.

ToString

[C#] public const MailPriority Normal;

[C++] public: const MailPriority Normal;

[VB] Public Const Normal As MailPriority

[JScript] public var Normal : MailPriority;

Description

Specifies that the email message has normal priority.

SmtpMail class (System.Web.Mail)

ToString

Description

Provides properties and methods to send an email attachment using the SMTP mail service built into Microsoft Windows 2000.

Mail is by default queued on a Windows 2000 system, ensuring that the calling program does not block network traffic.

SmtpMail

Example Syntax:

ToString

[C#] public SmtpMail();

[C++] public: SmtpMail();

[VB] Public Sub New()

[JScript] public function SmtpMail();

SmtpServer

ToString

[C#] public static string SmtpServer {get; set;}

[C++] public: __property static String* get_SmtpServer();public: __property static void set_SmtpServer(String*);

[VB] Public Shared Property SmtpServer As String

[JScript] public static function get SmtpServer() : String;public static function set SmtpServer(String);

Description

Gets or sets the name of the SMTP mail server to use to send email messages.

Send

[C#] public static void Send(MailMessage message);

[C++] public: static void Send(MailMessage* message);

[VB] Public Shared Sub Send(ByVal message As MailMessage)

[JScript] public static function Send(message : MailMessage);

Description

Sends a mail message using arguments supplied in the MailMessage properties. The **System.Web.Mail.MailMessage** object to send.

Send

[C#] public static void Send(string from, string to, string subject, string messageText);

[C++] public: static void Send(String* from, String* to, String* subject, String* messageText);

[VB] Public Shared Sub Send(ByVal from As String, ByVal to As String, ByVal subject As String, ByVal messageText As String)

[JScript] public static function Send(from : String, to : String, subject : String, messageText : String); Sends a mail message.

Description

Sends a mail message using the supplied destination arguments. The address of the email's sender. The address of the email's recipient. The subject line of the email message.

System.Web.Security

Description

This namespace contains classes that are used to implement ASP.NET security in Web server applications.

DefaultAuthenticationEventArgs class (System.Web.Security)

Description

Provides a wrapper around the default authentication services. This class cannot be inherited.

For more information about handling events, see .

Constructors:

DefaultAuthenticationEventArgs

Example Syntax:

```
[C#] public DefaultAuthenticationEventArgs(HttpContext context);
[C++] public: DefaultAuthenticationEventArgs(HttpContext* context);
[VB] Public Sub New(ByVal context As HttpContext)
[JScript] public function DefaultAuthenticationEventArgs(context : HttpContext);
```

Description

Initializes a new instance of the **System.Web.Security.DefaultAuthenticationEventArgs** class. The context for the event.

Properties:

Context

```
[C#] public HttpContext Context {get;}
[C++] public: __property HttpContext* get_Context();
[VB] Public ReadOnly Property Context As HttpContext
[JScript] public function get Context() : HttpContext;
```

Description

The **HttpContext** intrinsic provides access to **Request** , **Response** , and **User** objects.

Methods:

DefaultAuthenticationEventHandler delegate (System.Web.Security)

ToString

Description

Represents the method that handles the **DefaultAuthentication_OnAuthenticate** event of a **DefaultAuthenticationModule** . The object that raised the event. A **DefaultAuthenticationEventArgs** object that contains the event data.

When you create a **System.Web.Security.DefaultAuthenticationEventHandler** delegate, you identify the method to handle the event. To associate the event with your EventHandler, add an instance of the delegate to the event. The EventHandler is called whenever the event occurs, unless you remove the delegate. For more information about EventHandler delegates, see .

DefaultAuthenticationModule class (System.Web.Security)

ToString

Description

Insures that an **Authentication** object is present in the context. This class cannot be inherited.

DefaultAuthenticationModule

Example Syntax:

ToString

[C#] public DefaultAuthenticationModule();

[C++] public: DefaultAuthenticationModule();

[VB] Public Sub New()

[JScript] public function DefaultAuthenticationModule();

ToString

[C#] public event DefaultAuthenticationEventHandler Authenticate;

[C++] public: __event DefaultAuthenticationEventHandler* Authenticate;

[VB] Public Event Authenticate As DefaultAuthenticationEventHandler

Description

Defines the event raised by the **DefaultAuthentication** module. Used by the **DefaultAuthentication_OnAuthenticate** handler, if one exists.

When you create a **System.Web.Security.DefaultAuthenticationModule** delegate, you identify the method to handle the event. To associate the event with your EventHandler, add an instance of the delegate to the event. The EventHandler is called whenever the event occurs, unless you remove the delegate. For more information about EventHandler delegates, see .

Dispose

[C#] public void Dispose();

[C++] public: __sealed void Dispose();

[VB] NotOverridable Public Sub Dispose()

[JScript] public function Dispose();

Description

Called by the HTTP runtime to Dispose of the module (derived from **IHttpModule**).

Call **System.Web.Security.DefaultAuthenticationModule.Dispose** when you are finished using the **System.Web.Security.DefaultAuthenticationModule** . The **System.Web.Security.DefaultAuthenticationModule.Dispose** method leaves the **System.Web.Security.DefaultAuthenticationModule** in an unusable state. After calling **System.Web.Security.DefaultAuthenticationModule.Dispose** , you must release all references to the **System.Web.Security.DefaultAuthenticationModule** so the memory occupied can be reclaimed by garbage collection.

Init

[C#] public void Init(HttpApplication app);
[C++] public: __sealed void Init(HttpApplication* app);
[VB] NotOverridable Public Sub Init(ByVal app As HttpApplication)
[JScript] public function Init(app : HttpApplication);

Description

Initializes the module. The **HTTP application** .

FileAuthorizationModule class (System.Web.Security)

ToString

Description

Verifies that the remote user has NT permissions to access the file requested. This class cannot be inherited.

This module provides authorization services against file system ACLs. When the Windows authentication module is being used for the application, this module ensures (if in the pipeline) that the requesting user is allowed read access to the resource before executing it.

FileAuthorizationModule

Example Syntax:

ToString

[C#] public FileAuthorizationModule();

[C++] public: FileAuthorizationModule();

[VB] Public Sub New()

[JScript] public function FileAuthorizationModule();

Dispose

[C#] public void Dispose();

[C++] public: __sealed void Dispose();

[VB] NotOverridable Public Sub Dispose()

[JScript] public function Dispose();

Description

Disposes of the module dervied from **IHttpModule** when called by the **HttpRuntime** .

Call **System.Web.Security.FileAuthorizationModule.Dispose** when you are finished using the **System.Web.Security.FileAuthorizationModule** . The **System.Web.Security.FileAuthorizationModule.Dispose** method leaves the **System.Web.Security.FileAuthorizationModule** in an unusable state. After calling **System.Web.Security.FileAuthorizationModule.Dispose** , you must release all references to the **System.Web.Security.FileAuthorizationModule** so the memory occupied can be reclaimed by garbage collection.

Init

[C#] public void Init(HttpApplication app);
[C++] public: __sealed void Init(HttpApplication* app);
[VB] NotOverridable Public Sub Init(ByVal app As HttpApplication)
[JScript] public function Init(app : HttpApplication);

Description

Initializes the module. The **HttpApplication** module.

FormsAuthentication class (System.Web.Security)

ToString

Description

Provides static methods that supply helper utilities for manipulating authentication tickets. This class cannot be inherited.

FormsAuthentication

Example Syntax:

ToString

[C#] public FormsAuthentication();

[C++] public: FormsAuthentication();

[VB] Public Sub New()

[JScript] public function FormsAuthentication();

FormsCookieName

ToString

[C#] public static string FormsCookieName {get;}

[C++] public: __property static String* get_FormsCookieName();

[VB] Public Shared ReadOnly Property FormsCookieName As String

[JScript] public static function get FormsCookieName() : String;

Description

Returns the configured cookie name used for the current application.

Returns a **String** .

FormsCookiePath

ToString

[C#] public static string FormsCookiePath {get;}

[C++] public: __property static String* get_FormsCookiePath();

[VB] Public Shared ReadOnly Property FormsCookiePath As String

[JScript] public static function get FormsCookiePath() : String;

Description

Returns the configured cookie path used for the current application.

Authenticate

[C#] public static bool Authenticate(string name, string password);

[C++] public: static bool Authenticate(String* name, String* password);

[VB] Public Shared Function Authenticate(ByVal name As String, ByVal password As String) As Boolean

[JScript] public static function Authenticate(name : String, password : String) : Boolean;

Description

Attempts to validate the credentials against those contained in the configured credential store, given the supplied credentials.

Return Value: Returns **true** if the credentials are valid, otherwise returns **false** . The user name The user password.

Decrypt

[C#] public static FormsAuthenticationTicket Decrypt(string strEncrypted);

[C++] public: static FormsAuthenticationTicket* Decrypt(String* strEncrypted);

[VB] Public Shared Function Decrypt(ByVal strEncrypted As String) As FormsAuthenticationTicket

[JScript] public static function Decrypt(strEncrypted : String) : FormsAuthenticationTicket;

Description

Returns an instance of a **FormsAuthenticationTicket** class, given an encrypted authentication ticket obtained from an HTTP cookie.

Return Value: Returns a **FormsAuthenticationTicket** object.

Encrypt

[C#] public static string Encrypt(FormsAuthenticationTicket ticket);

[C++] public: static String* Encrypt(FormsAuthenticationTicket* ticket);

[VB] Public Shared Function Encrypt(ByVal ticket As FormsAuthenticationTicket) As String

[JScript] public static function Encrypt(ticket : FormsAuthenticationTicket) : String;

Description

Produces a string containing an encrypted authentication ticket suitable for use in an HTTP cookie, given a **FormsAuthenticationTicket** .

Return Value: Returns a **String** containing an encrypted authentication ticket. An authentication ticket class.

GetAuthCookie

[C#] public static HttpCookie GetAuthCookie(string userName, bool createPersistentCookie);

[C++] public: static HttpCookie* GetAuthCookie(String* userName, bool createPersistentCookie);

[VB] Public Shared Function GetAuthCookie(ByVal userName As String, ByVal createPersistentCookie As Boolean) As HttpCookie

[JScript] public static function GetAuthCookie(userName : String, createPersistentCookie : Boolean) : HttpCookie; Creates an authentication cookie for a given user name.

Description

Creates an authentication cookie for a given user name. This does not set the cookie as part of the outgoing response, so that an application can have more control over how the cookie is issued.

Return Value: Returns an **HttpCookie** . Name of the authenticated user. This does not have to map to a Windows account. Specifies whether or not a durable cookie (a cookie that is saved across browser sessions) should be issued. Cookie path defaults to'/'.

GetAuthCookie

[C#] public static HttpCookie GetAuthCookie(string userName, bool createPersistentCookie, string strCookiePath);

[C++] public: static HttpCookie* GetAuthCookie(String* userName, bool createPersistentCookie, String* strCookiePath);

[VB] Public Shared Function GetAuthCookie(ByVal userName As String, ByVal createPersistentCookie As Boolean, ByVal strCookiePath As String) As HttpCookie

[JScript] public static function GetAuthCookie(userName : String, createPersistentCookie : Boolean, strCookiePath : String) : HttpCookie;

Description

Creates an authentication cookie for a given user name. This does not set the cookie as part of the outgoing response, so that an application can have more control over how the cookie is issued.

Return Value: Returns an **HttpCookie** . Name of the authenticated user. This does not have to map to a Windows account. Specifies whether or not a durable cookie (a cookie that is saved across browser sessions) should be issued. Specifies cookie path.

GetRedirectUrl

[C#] public static string GetRedirectUrl(string userName, bool createPersistentCookie);

[C++] public: static String* GetRedirectUrl(String* userName, bool createPersistentCookie);

[VB] Public Shared Function GetRedirectUrl(ByVal userName As String, ByVal createPersistentCookie As Boolean) As String

[JScript] public static function GetRedirectUrl(userName : String, createPersistentCookie : Boolean) : String;

Description

Returns the redirect URL for the original request that caused the redirect to the logon page.

Return Value: Returns a **String** .

If there is no original URL, Default.aspx is used. If the redirect URL specifies a different server, this method also returns the authentication ticket as part of the query string. This method can be used by applications that need to do the redirect themselves instead of using **RedirectFromLoginPage** . Name of the authenticated user. This does not have to map to a Windows account. Specifies whether or not a durable cookie (a cookie that is saved across browser sessions) should be issued. Cookie path defaults to'/'.

HashPasswordForStoringInConfigFile

[C#] public static string HashPasswordForStoringInConfigFile(string password, string passwordFormat);

[C++] public: static String* HashPasswordForStoringInConfigFile(String* password, String* passwordFormat);

[VB] Public Shared Function HashPasswordForStoringInConfigFile(ByVal password As String, ByVal passwordFormat As String) As String

[JScript] public static function HashPasswordForStoringInConfigFile(password : String, passwordFormat : String) : String;

Description

Given a password and a string identifying the hash type, this routine produces a hash password suitable for storing in a configuration file.

Return Value: Returns a **String** containing a hashed password.

Password algorithms supported are SHA1 and MD5. The pasword to hash. The hash algorithm to use. Choices are "sha1" or "md5".

Initialize

[C#] public static void Initialize();

[C++] public: static void Initialize();

[VB] Public Shared Sub Initialize()

[JScript] public static function Initialize();

Description

Initializes **FormsAuthentication** by reading the configuration and getting the cookie values and encryption keys for the given application.

RedirectFromLoginPage

[C#] public static void RedirectFromLoginPage(string userName, bool createPersistentCookie);

[C++] public: static void RedirectFromLoginPage(String* userName, bool createPersistentCookie);

[VB] Public Shared Sub RedirectFromLoginPage(ByVal userName As String, ByVal createPersistentCookie As Boolean)

[JScript] public static function RedirectFromLoginPage(userName : String, createPersistentCookie : Boolean); Redirects an authenticated user back to the originally requested URL.

Description

Redirects an authenticated user back to the originally requested URL.

Redirects, based on the contents of the **ReturnURL** key in the query string, or redirects to Default.aspx if the return key does not exist. It issues an authentication ticket and does a **SetForms** with the ticket, using the appropriately configured cookie name for the application as part of the redirect response. Name of the user for cookie authentication purposes. This does not need to map to an account name and will be used by URL Authorization. Specifies whether or not a durable cookie (one that is saved across browser sessions) should be issued.

RedirectFromLoginPage

```
[C#] public static void RedirectFromLoginPage(string userName, bool
createPersistentCookie, string strCookiePath);
[C++] public: static void RedirectFromLoginPage(String* userName, bool
createPersistentCookie, String* strCookiePath);
[VB] Public Shared Sub RedirectFromLoginPage(ByVal userName As String,
ByVal createPersistentCookie As Boolean, ByVal strCookiePath As String)
[JScript] public static function RedirectFromLoginPage(userName : String,
createPersistentCookie : Boolean, strCookiePath : String);
```

Description

Redirects an authenticated user back to the originally requested URL.

Redirects, based on the contents of the **ReturnURL** key in the query string, or redirects to Default.aspx if the return key does not exist. It issues an authentication ticket and does a **SetForms** with the ticket, using the appropriately configured cookie name for the application as part of the redirect response. Name of the user for cookie authentication purposes. This does not need to map to an account name and will be used by URL Authorization. Specifies whether or not a durable cookie (one that is saved across browser sessions) should be issued. Specifies cookie path.

RenewTicketIfOld

[C#] public static FormsAuthenticationTicket RenewTicketIfOld(FormsAuthenticationTicket tOld);

[C++] public: static FormsAuthenticationTicket* RenewTicketIfOld(FormsAuthenticationTicket* tOld);

[VB] Public Shared Function RenewTicketIfOld(ByVal tOld As FormsAuthenticationTicket) As FormsAuthenticationTicket

[JScript] public static function RenewTicketIfOld(tOld : FormsAuthenticationTicket) : FormsAuthenticationTicket;

Description

Conditionally updates the sliding expiration on a **FormsAuthenticationTicket.**

Return Value: Returns the updated **FormsAuthenticationTicket.**

The ticket is updated with the **IssueDate** set to the current time and the expiration based on the difference between the previous expiration time and issue time. The test used to determine whether the ticket should be updated is (**DateTime.Now** â€“ **IssueDate**) > (**Expiration** â€“ **DateTime.Now**).

SetAuthCookie

[C#] public static void SetAuthCookie(string userName, bool createPersistentCookie);

[C++] public: static void SetAuthCookie(String* userName, bool createPersistentCookie);

[VB] Public Shared Sub SetAuthCookie(ByVal userName As String, ByVal createPersistentCookie As Boolean)

[JScript] public static function SetAuthCookie(userName : String, createPersistentCookie : Boolean); Creates an authentication ticket and attaches it to the cookie's collection of the outgoing response. It does not perform a redirect.

Description

Creates an authentication ticket for the given *userName* and *createPersistentCookie* and attaches it to the cookie's collection of the outgoing response. It does not perform a redirect.

This has the effect of creating an authenticated user. Applications can use this when they intend to manually redirect, or if they do not want to redirect. For example, you can use this for an embedded logon area on a page. The name of an authenticated user. This does not have to map to a Windows account. Specifies whether or not a durable cookie (one that is saved across browser sessions) should be issued.

SetAuthCookie

[C#] public static void SetAuthCookie(string userName, bool createPersistentCookie, string strCookiePath);

[C++] public: static void SetAuthCookie(String* userName, bool createPersistentCookie, String* strCookiePath);

[VB] Public Shared Sub SetAuthCookie(ByVal userName As String, ByVal createPersistentCookie As Boolean, ByVal strCookiePath As String)

[JScript] public static function SetAuthCookie(userName : String, createPersistentCookie : Boolean, strCookiePath : String);

Description

Creates an authentication ticket for the given *userName,createPersistentCookie,* and *strCookiePath* and attaches it to the cookie's collection of the outgoing response. It does not perform a redirect.

This has the effect of creating an authenticated user. Applications can use this when they intend to manually redirect, or if they do not want to redirect. For example, you can use this for an embedded logon area on a page. The name of an authenticated user. This does not have to map to a Windows account. Specifies whether or not a durable cookie (one that is saved across browser sessions) should be issued. Specifies cookie path.

SignOut

[C#] public static void SignOut();

[C++] public: static void SignOut();

[VB] Public Shared Sub SignOut()

[JScript] public static function SignOut();

Description

Removes the authentication ticket by doing a **SetForms** with an empty value, given an authenticated user. This removes either durable or session cookies.

FormsAuthenticationEventArgs class (System.Web.Security)

ToString

Description

Provides data for the **FormsAuthentication_OnAuthenticate** event. This class cannot be inherited.

For more information about handling events, see .

FormsAuthenticationEventArgs

Example Syntax:

ToString

```
[C#] public FormsAuthenticationEventArgs(HttpContext context);
[C++] public: FormsAuthenticationEventArgs(HttpContext* context);
[VB] Public Sub New(ByVal context As HttpContext)
[JScript] public function FormsAuthenticationEventArgs(context : HttpContext);
```

Description

Initializes a new instance of the **System.Web.Security.FormsAuthenticationEventArgs** class.

The following table shows initial property values for an instance of **System.Web.Security.FormsAuthenticationEventArgs** . The context for the event.

Context

ToString

```
[C#] public HttpContext Context {get;}
[C++] public: __property HttpContext* get_Context();
[VB] Public ReadOnly Property Context As HttpContext
[JScript] public function get Context() : HttpContext;
```

Description

Provides access to **Request** , **Response** , and **User** objects. This is the **HttpContext** intrinsic.

See the ASP.NET **HttpRuntime** documentation for more information.

User

ToString

```
[C#] public IPrincipal User {get; set;}
[C++] public: __property IPrincipal* get_User();public: __property void
set_User(IPrincipal*);
[VB] Public Property User As IPrincipal
[JScript] public function get User() : IPrincipal;public function set
User(IPrincipal);
```

Description

Indicates the **IPrincipal** object to be associated with the request.

The user object will be attached to the context. If **User** is non null and **Context.User** is null, the **FormsAuthenticationModule** will initialize **Context.User** with **FormsAuthenticationEventArgs.User** .

FormsAuthenticationEventHandler delegate (System.Web.Security)

ToString

Description

Represents the method that will handle the **FormsAuthentication** event of a **FormsAuthenticationModule** . The source of the event. A **System.Web.Security.FormsAuthenticationEventArgs** that contains the event data.

When you create a **System.Web.Security.FormsAuthenticationEventHandler** delegate, you identify the method that will handle the event. To associate the event with your event handler, add an instance of the delegate to the event. The event handler is called whenever the event occurs, unless you remove the delegate. For more information about event handler delegates, see This delegate defines the signature for the FormsAuthentication_OnAuthenticate event handler.

FormsAuthenticationModule class (System.Web.Security)

ToString

Description

Enables ASP.NET applications to use forms authentication. This class cannot be inherited.

FormsAuthenticationModule

Example Syntax:

ToString

[C#] public FormsAuthenticationModule();

[C++] public: FormsAuthenticationModule();

[VB] Public Sub New()

[JScript] public function FormsAuthenticationModule();

ToString

[C#] public event FormsAuthenticationEventHandler Authenticate;

[C++] public: __event FormsAuthenticationEventHandler* Authenticate;

[VB] Public Event Authenticate As FormsAuthenticationEventHandler

Description

Defines the event raised during authentication. This is a Global.asax event that must be named **FormsAuthentication_OnAuthenticate** . You can use this event to customize cookie authentication.

For more information about handling events, see .

Dispose

[C#] public void Dispose();

[C++] public: __sealed void Dispose();

[VB] NotOverridable Public Sub Dispose()

[JScript] public function Dispose();

Description

Disposes of the module derived from **IHttpModule** when called by the **HttpRuntime** .

Call **System.Web.Security.FormsAuthenticationModule.Dispose** when you are finished using the **System.Web.Security.FormsAuthenticationModule** . The **System.Web.Security.FormsAuthenticationModule.Dispose** method leaves the **System.Web.Security.FormsAuthenticationModule** in an unusable state. After calling **System.Web.Security.FormsAuthenticationModule.Dispose** , you must release all references to the **System.Web.Security.FormsAuthenticationModule** so the memory it was occupying can be reclaimed by garbage collection.

Init

```
[C#] public void Init(HttpApplication app);
[C++] public: __sealed void Init(HttpApplication* app);
[VB] NotOverridable Public Sub Init(ByVal app As HttpApplication)
[JScript] public function Init(app : HttpApplication);
```

Description

Initializes the module derived from **IHttpModule** when called by the **HttpRuntime.** The **HttpApplication** module.

OnEnter

```
[C#] public void OnEnter(object source, EventArgs eventArgs);
[C++] public: void OnEnter(Object* source, EventArgs* eventArgs);
[VB] Public Sub OnEnter(ByVal source As Object, ByVal eventArgs As
```

EventArgs)

[JScript] public function OnEnter(source : Object, eventArgs : EventArgs);

Description

Called by the **HttpRuntime** . The source of the event. A **System.Web.Security.FormsAuthenticationEventArgs**that contains the event data.

OnLeave

[C#] public void OnLeave(object source, EventArgs eventArgs);

[C++] public: void OnLeave(Object* source, EventArgs* eventArgs);

[VB] Public Sub OnLeave(ByVal source As Object, ByVal eventArgs As EventArgs)

[JScript] public function OnLeave(source : Object, eventArgs : EventArgs);

Description

Called by the **HttpRuntime** . The source of the event. A **System.Web.Security.FormsAuthenticationEventArgs**that contains the event data.

FormsAuthenticationTicket class (System.Web.Security)

ToString

Description

Provides the information represented in an authentication cookie as used by **FormsAuthenticationModule** . This class cannot be inherited.

For more information about using attributes, see .

FormsAuthenticationTicket

Example Syntax:

ToString

```
[C#] public FormsAuthenticationTicket(string name, bool isPersistent, int timeout);
[C++] public: FormsAuthenticationTicket(String* name, bool isPersistent, int timeout);
[VB] Public Sub New(ByVal name As String, ByVal isPersistent As Boolean, ByVal timeout As Integer)
[JScript] public function FormsAuthenticationTicket(name : String, isPersistent : Boolean, timeout : int);
```

Description

Creates a **FormsAuthenticationTicket** instance with the specified name and cookie durability, and default values for the other settings (version set internally, dates set to current date, and expiration determined on durability of cookie).

The default settings include version number, dates that are set to the current date, and expiration as determined by the durability setting. User name associated with the ticket. If true, use a persistent cookie. Specifies the time in minutes (as an integer) for which the authentication ticket is valid.

FormsAuthenticationTicket

Example Syntax:

ToString

[C#] public FormsAuthenticationTicket(int version, string name, DateTime issueDate, DateTime expiration, bool isPersistent, string userData);

[C++] public: FormsAuthenticationTicket(int version, String* name, DateTime issueDate, DateTime expiration, bool isPersistent, String* userData);

[VB] Public Sub New(ByVal version As Integer, ByVal name As String, ByVal issueDate As DateTime, ByVal expiration As DateTime, ByVal isPersistent As Boolean, ByVal userData As String)

[JScript] public function FormsAuthenticationTicket(version : int, name : String, issueDate : DateTime, expiration : DateTime, isPersistent : Boolean, userData : String); Creates a **FormsAuthenticationTicket** instance.

Description

Creates a **FormsAuthenticationTicket** instance with explicit values. The version number. User name associated with the ticket. Time at which the cookie was issued. Set an expiration date for the cookie. **True** if the cookie is persistent. User-defined data to be stored in the cookie.

FormsAuthenticationTicket

Example Syntax:

ToString

[C#] public FormsAuthenticationTicket(int version, string name, DateTime issueDate, DateTime expiration, bool isPersistent, string userData, string cookiePath);

[C++] public: FormsAuthenticationTicket(int version, String* name, DateTime issueDate, DateTime expiration, bool isPersistent, String* userData, String* cookiePath);

[VB] Public Sub New(ByVal version As Integer, ByVal name As String, ByVal issueDate As DateTime, ByVal expiration As DateTime, ByVal isPersistent As Boolean, ByVal userData As String, ByVal cookiePath As String)

[JScript] public function FormsAuthenticationTicket(version : int, name : String, issueDate : DateTime, expiration : DateTime, isPersistent : Boolean, userData : String, cookiePath : String);

Description

Creates a **FormsAuthenticationTicket** instance with explicit values. The version number. User name associated with the ticket. Time at which the cookie was issued. Set an expiration date for the cookie. **True** if the cookie is persistent. User-defined data to be stored in the cookie. THe path for the cookie.

CookiePath

ToString

[C#] public string CookiePath {get;}

[C++] public: __property String* get_CookiePath();

[VB] Public ReadOnly Property CookiePath As String

[JScript] public function get CookiePath() : String;

Description

Returns the Path for which the cookie was issued.

This is used when the cookie is refreshed.

Expiration

ToString

[C#] public DateTime Expiration {get;}

[C++] public: __property DateTime get_Expiration();

[VB] Public ReadOnly Property Expiration As DateTime

[JScript] public function get Expiration() : DateTime;

Description

Returns the date/time at which the cookie expires.

For durable cookies, this should be the maximum value. For session scoped cookies, this should be set to the time the cookie was issued. This can be used by custom application logic to implement more-advanced expiration semantics.

Expired

ToString

[C#] public bool Expired {get;}

[C++] public: __property bool get_Expired();

[VB] Public ReadOnly Property Expired As Boolean

[JScript] public function get Expired() : Boolean;

Description

Returns **True** if the cookie has expired.

IsPersistent

ToString

[C#] public bool IsPersistent {get;}

[C++] public: __property bool get_IsPersistent();

[VB] Public ReadOnly Property IsPersistent As Boolean

[JScript] public function get IsPersistent() : Boolean;

Description

Returns **True** if a durable cookie was issued. Otherwise, the authentication cookie is scoped to the browser lifetime.

IssueDate

ToString

[C#] public DateTime IssueDate {get;}

[C++] public: __property DateTime get_IssueDate();

[VB] Public ReadOnly Property IssueDate As DateTime

[JScript] public function get IssueDate() : DateTime;

Description

Returns the date/time at which the cookie was originally issued. This can be used for custom expiration schemes.

Name

ToString

[C#] public string Name {get;}

[C++] public: __property String* get_Name();

[VB] Public ReadOnly Property Name As String

[JScript] public function get Name() : String;

Description

Returns the user name associated with the authentication cookie.

This string is used for authorization purposes.

UserData

ToString

[C#] public string UserData {get;}

[C++] public: __property String* get_UserData();

[VB] Public ReadOnly Property UserData As String

[JScript] public function get UserData() : String;

Description

Returns an application-defined string that might have been stored in the cookie.

This field will be empty ("") if no application-defined data was provided.

Version

ToString

[C#] public int Version {get;}

[C++] public: __property int get_Version();

[VB] Public ReadOnly Property Version As Integer

[JScript] public function get Version() : int;

Description

Returns a byte version number for future use.

The current version identifier is 1.

FormsIdentity class (System.Web.Security)

ToString

Description

Provides an **IIdentity-** derived class to be used by **FormsAuthenticationModule** . It provides a way for an application to access the cookie authentication ticket. This class cannot be inherited.

FormsIdentity

Example Syntax:

ToString

[C#] public FormsIdentity(FormsAuthenticationTicket ticket);

[C++] public: FormsIdentity(FormsAuthenticationTicket* ticket);

[VB] Public Sub New(ByVal ticket As FormsAuthenticationTicket)

[JScript] public function FormsIdentity(ticket : FormsAuthenticationTicket);

Description

Initializes a new instance of the **System.Web.Security.FormsIdentity** class. The authentication ticket upon which this identity is based.

AuthenticationType

ToString

[C#] public string AuthenticationType {get;}

[C++] public: __property String* get_AuthenticationType();

[VB] Public ReadOnly Property AuthenticationType As String

[JScript] public function get AuthenticationType() : String;

Description

The type of the identity (in this case, "Forms").

IsAuthenticated

ToString

[C#] public bool IsAuthenticated {get;}

[C++] public: __property bool get_IsAuthenticated();

[VB] Public ReadOnly Property IsAuthenticated As Boolean

[JScript] public function get IsAuthenticated() : Boolean;

Description

Indicates whether authentication took place.

Name

ToString

[C#] public string Name {get;}
[C++] public: __property String* get_Name();
[VB] Public ReadOnly Property Name As String
[JScript] public function get Name() : String;

Description

The name of the identity (in this case, the user name).

Ticket

ToString

[C#] public FormsAuthenticationTicket Ticket {get;}
[C++] public: __property FormsAuthenticationTicket* get_Ticket();
[VB] Public ReadOnly Property Ticket As FormsAuthenticationTicket
[JScript] public function get Ticket() : FormsAuthenticationTicket;

Description

Returns the **FormsAuthenticationTicket** associated with the current request.

PassportAuthenticationEventArgs class (System.Web.Security)

ToString

Description

The event argument passed to the **PassportAuthentication_OnAuthenticate** event by the **PassportAuthentication** module. Since there is already an identity at this point, this is useful mainly for attaching a custom **IPrincipal** object to the context using the supplied identity.

For more information about handling events, see .

PassportAuthenticationEventArgs

Example Syntax:

ToString

[C#] public PassportAuthenticationEventArgs(PassportIdentity identity, HttpContext context);

[C++] public: PassportAuthenticationEventArgs(PassportIdentity* identity, HttpContext* context);

[VB] Public Sub New(ByVal identity As PassportIdentity, ByVal context As HttpContext)

[JScript] public function PassportAuthenticationEventArgs(identity : PassportIdentity, context : HttpContext);

Description

Initializes a new instance of the **System.Web.Security.PassportAuthenticationEventArgs** class. The identity object The context for the event.

Context

ToString

```
[C#] public HttpContext Context {get;}
[C++] public: __property HttpContext* get_Context();
[VB] Public ReadOnly Property Context As HttpContext
[JScript] public function get Context() : HttpContext;
```

Description

The **HttpContext** intrinsic provides access to **Request** , **Response** , and **User** objects.

Identity

ToString

```
[C#] public PassportIdentity Identity {get;}
[C++] public: __property PassportIdentity* get_Identity();
[VB] Public ReadOnly Property Identity As PassportIdentity
[JScript] public function get Identity() : PassportIdentity;
```

Description

An authenticated Passport identity.

User

ToString

```
[C#] public IPrincipal User {get; set;}
[C++] public: __property IPrincipal* get_User();public: __property void
set_User(IPrincipal*);
```

[VB] Public Property User As IPrincipal

[JScript] public function get User() : IPrincipal;public function set User(IPrincipal);

Description

Associates an **IPrincipal** object with the request.

The **User** object should be attached to the context. If User is non-null and **Context.User** is null, the **PassportAuthenticationModule** will initialize **Context.User** with **PassportAuthenticationEventArgs.User** .

PassportAuthenticationEventHandler delegate (System.Web.Security)

ToString

Description

Represents the method that handles the **PassportAuthentication_OnAuthenticate** event of a **PassportAuthenticationModule** . The object that raised the event. A **PassportAuthenticationEventArgs** object that contains the event data.

When you create a **System.Web.Security.PassportAuthenticationEventHandler** delegate, you identify the method to handle the event. To associate the event with your EventHandler, add an instance of the delegate to the event. The EventHandler is called whenever the event occurs, unless you remove the delegate. For more information about EventHandler delegates, see .

PassportAuthenticationModule class (System.Web.Security)

ToString

Description

Provides a wrapper around PassportAuthentication services. This class cannot be inherited.

Installation of the Passport SDK is still required, as is registration of the site with the Passport authority. The **PassportAuthentication_OnAuthenticate** event is raised for applications that are designed to attach a custom **IPrincipal** object to the context. The Passport service itself does the authentication, so that cannot be overridden.

PassportAuthenticationModule

Example Syntax:

ToString

[C#] public PassportAuthenticationModule();

[C++] public: PassportAuthenticationModule();

[VB] Public Sub New()

[JScript] public function PassportAuthenticationModule();

ToString

[C#] public event PassportAuthenticationEventHandler Authenticate;

[C++] public: __event PassportAuthenticationEventHandler* Authenticate;

[VB] Public Event Authenticate As PassportAuthenticationEventHandler

Description

Raised during authentication. This is a Global.asax event that must be named **PassportAuthentication_OnAuthenticate** event.

Advanced users use this event to attach a custom **IPrinciple** object to the context.

Dispose

```
[C#] public void Dispose();
[C++] public: __sealed void Dispose();
[VB] NotOverridable Public Sub Dispose()
[JScript] public function Dispose();
```

Description

Disposes of the module derived from **IHttpModule** when called by the **HttpRuntime.**

Call **System.Web.Security.PassportAuthenticationModule.Dispose** when you are finished using the **System.Web.Security.PassportAuthenticationModule** . The **System.Web.Security.PassportAuthenticationModule.Dispose** method leaves the **System.Web.Security.PassportAuthenticationModule** in an unusable state. After calling **System.Web.Security.PassportAuthenticationModule.Dispose** , you must release all references to the **System.Web.Security.PassportAuthenticationModule** so the memory it occupied can be reclaimed by garbage collection.

Init

[C#] public void Init(HttpApplication app);

[C++] public: __sealed void Init(HttpApplication* app);

[VB] NotOverridable Public Sub Init(ByVal app As HttpApplication)

[JScript] public function Init(app : HttpApplication);

Description

Initializes the module (derived from **IHttpModule**) when called by the **HttpRuntime** . The **HttpApplication** module

PassportIdentity class (System.Web.Security)

ToString

Description

Provides access to the Passport profile information contained in the Passport profile cookies. This is an **IIdentity-** derived class. This class cannot be inherited.

ASP.NET Beta 2 requires the 1.4 version of the Passport SDK.

PassportIdentity

Example Syntax:

ToString

[C#] public PassportIdentity();

[C++] public: PassportIdentity();

[VB] Public Sub New()

[JScript] public function PassportIdentity();

Description

Creates a new instance of the **PassportIdentity** object.

AuthenticationType

ToString

[C#] public string AuthenticationType {get;}

[C++] public: __property String* get_AuthenticationType();

[VB] Public ReadOnly Property AuthenticationType As String

[JScript] public function get AuthenticationType() : String;

Description

The type of the identity. In this case, **Passport** .

See the Passport SDK documentation for more information about **PassportIdentity.AuthenticationType** .

Error

ToString

[C#] public int Error {get;}

[C++] public: __property int get_Error();

[VB] Public ReadOnly Property Error As Integer

[JScript] public function get Error() : int;

Description

Returns an error state associated with the current Passport ticket. For more information, see the error property in the Passport documentation .

GetFromNetworkServer

ToString

```
[C#] public bool GetFromNetworkServer {get;}
[C++] public: __property bool get_GetFromNetworkServer();
[VB] Public ReadOnly Property GetFromNetworkServer As Boolean
[JScript] public function get GetFromNetworkServer() : Boolean;
```

Description

Returns **true** if a connection is coming back from the Passport server (logon, update, or registration) and if the Passport data contained on the query string is valid.

HasSavedPassword

ToString

```
[C#] public bool HasSavedPassword {get;}
[C++] public: __property bool get_HasSavedPassword();
[VB] Public ReadOnly Property HasSavedPassword As Boolean
[JScript] public function get HasSavedPassword() : Boolean;
```

Description

Returns **true** if the Passport member's ticket indicates that the password was saved on the Passport logon page the last time the ticket was refreshed.

For more information, see the Passport SDK documentation .

HasTicket

ToString

[C#] public bool HasTicket {get;}

[C++] public: __property bool get_HasTicket();

[VB] Public ReadOnly Property HasTicket As Boolean

[JScript] public function get HasTicket() : Boolean;

Description

Returns **true** if there is a Passport ticket as a cookie on the query string.

For more information, see the Passport SDK documentation .

IsAuthenticated

ToString

[C#] public bool IsAuthenticated {get;}

[C++] public: __property bool get_IsAuthenticated();

[VB] Public ReadOnly Property IsAuthenticated As Boolean

[JScript] public function get IsAuthenticated() : Boolean;

Description

Returns **true** if the user is authenticated by a Passport authority.

For more information, see the Passport SDK documentation .

Item

ToString

```
[C#] public string this[string strProfileName] {get;}
[C++] public: __property String* get_Item(String* strProfileName);
[VB] Public Default ReadOnly Property Item(ByVal strProfileName As String)
As String
[JScript] returnValue = PassportIdentityObject.Item(strProfileName);
```

Description

Acceses Passport profile attributes . Calling this property is the equivalent of calling **GetProfileObject** or **SetProfileObject** .

For more information, see the Passport SDK documentation . The Passport profile attribute to query.

Name

ToString

```
[C#] public string Name {get;}
[C++] public: __property String* get_Name();
[VB] Public ReadOnly Property Name As String
[JScript] public function get Name() : String;
```

Description

Consists of the name of the identity. In this case, it is the value of the Passport PUID.

For more information, see the Passport SDK documentation .

TicketAge

ToString

[C#] public int TicketAge {get;}

[C++] public: __property int get_TicketAge();

[VB] Public ReadOnly Property TicketAge As Integer

[JScript] public function get TicketAge() : int;

Description

Consists of the time, in seconds, since the last ticket was issued or refreshed.

For more information, see the Passport SDK documentation .

TimeSinceSignIn

ToString

[C#] public int TimeSinceSignIn {get;}

[C++] public: __property int get_TimeSinceSignIn();

[VB] Public ReadOnly Property TimeSinceSignIn As Integer

[JScript] public function get TimeSinceSignIn() : int;

Description

Consists of the time, in seconds, since a member's log on to the Passport logon server.

For more information, see the Passport SDK documentation .

AuthUrl

[C#] public string AuthUrl();

[C++] public: String* AuthUrl();

[VB] Public Function AuthUrl() As String

[JScript] public function AuthUrl() : String; There are two overloads for this method.

Description

Returns a string containing the login server URL for a member, along with the optional information sent to the login server in the query string.

AuthUrl

[C#] public string AuthUrl(string strReturnUrl, int iTimeWindow, bool fForceLogin, string strCoBrandedArgs, int iLangID, string strNameSpace, int iKPP, bool bUseSecureAuth);

[C++] public: String* AuthUrl(String* strReturnUrl, int iTimeWindow, bool fForceLogin, String* strCoBrandedArgs, int iLangID, String* strNameSpace, int iKPP, bool bUseSecureAuth);

[VB] Public Function AuthUrl(ByVal strReturnUrl As String, ByVal iTimeWindow As Integer, ByVal fForceLogin As Boolean, ByVal strCoBrandedArgs As String, ByVal iLangID As Integer, ByVal strNameSpace As String, ByVal iKPP As Integer, ByVal bUseSecureAuth As Boolean) As String

[JScript] public function AuthUrl(strReturnUrl : String, iTimeWindow : int, fForceLogin : Boolean, strCoBrandedArgs : String, iLangID : int, strNameSpace :

```
String, iKPP : int, bUseSecureAuth : Boolean) : String;
```

Description

Similar to AuthUrl(). Returns the authentication server URL for a member.

For more information about the parameters for this method, see the Passport SDK documentation. Sets the URL of the location that the Login server should redirect to after sign-in is complete. Specifies the interval during which members must have last signed in. Determines how the iTimeWindow will be used. Specifies variables to be appended to the URL of the Co-branding Template script page that was specified at initial participant registration. Specifies the language in which the required domain authority page should be displayed. Specifies the domain in which the Passport should be created. Specifies data collection policies for purposes of COPPA compliance. Declares whether the actual sign-in UI should be served HTTPS from the Passport domain authority.

AuthUrl

```
[C#] public string AuthUrl(string strReturnUrl, int iTimeWindow, int iForceLogin, string strCoBrandedArgs, int iLangID, string strNameSpace, int iKPP, int iUseSecureAuth);
[C++] public: String* AuthUrl(String* strReturnUrl, int iTimeWindow, int iForceLogin, String* strCoBrandedArgs, int iLangID, String* strNameSpace, int iKPP, int iUseSecureAuth);
[VB] Public Function AuthUrl(ByVal strReturnUrl As String, ByVal iTimeWindow As Integer, ByVal iForceLogin As Integer, ByVal strCoBrandedArgs As String, ByVal iLangID As Integer, ByVal strNameSpace
```

As String, ByVal iKPP As Integer, ByVal iUseSecureAuth As Integer) As String

[JScript] public function AuthUrl(strReturnUrl : String, iTimeWindow : int, iForceLogin : int, strCoBrandedArgs : String, iLangID : int, strNameSpace : String, iKPP : int, iUseSecureAuth : int) : String;

Description

AuthUrl2

[C#] public string AuthUrl2();

[C++] public: String* AuthUrl2();

[VB] Public Function AuthUrl2() As String

[JScript] public function AuthUrl2() : String; Retrieves a **String** containing the logon server URL for a member, as well as the optional information sent to the logon server in the query string.

Description

Retrieves a **String** containing the logon server URL for a member, as well as the optional information sent to the logon server in the query string.

Return Value: The logon server URL for a member, as well as the optional information sent to the logon server in the query string.

This URL can be used to generate a link for a member who has not signed in previously or who has an expired ticket. For more details, see **IPassportManager2::Authaurl2** in the Passport SDK documentation.

AuthUrl2

```
[C#] public string AuthUrl2(string strReturnUrl, int iTimeWindow, bool fForceLogin, string strCoBrandedArgs, int iLangID, string strNameSpace, int iKPP, bool bUseSecureAuth);
[C++] public: String* AuthUrl2(String* strReturnUrl, int iTimeWindow, bool fForceLogin, String* strCoBrandedArgs, int iLangID, String* strNameSpace, int iKPP, bool bUseSecureAuth);
[VB] Public Function AuthUrl2(ByVal strReturnUrl As String, ByVal iTimeWindow As Integer, ByVal fForceLogin As Boolean, ByVal strCoBrandedArgs As String, ByVal iLangID As Integer, ByVal strNameSpace As String, ByVal iKPP As Integer, ByVal bUseSecureAuth As Boolean) As String
[JScript] public function AuthUrl2(strReturnUrl : String, iTimeWindow : int, fForceLogin : Boolean, strCoBrandedArgs : String, iLangID : int, strNameSpace : String, iKPP : int, bUseSecureAuth : Boolean) : String;
```

Description

Retrieves a **String** containing the logon server URL for a member, as well as the optional information sent to the logon server in the query string.

Return Value: The logon server URL for a member, as well as the optional information sent to the logon server in the query string.

This URL can be used to generate a link for a member who has not signed in previously or who has an expired ticket. For more details, see **IPassportManager2::AuthUrl2** in the Passport SDK documentation. See Passport documentation for **IPassportManager2::AuthUrl2**. See Passport documentation for **IPassportManager2::AuthUrl2**. See Passport documentation for **IPassportManager2::AuthUrl2**. See Passport documentation for **IPassportManager2::AuthUrl2**. See Passport documentation for **IPassportManager2::AuthUrl2**. See Passport documentation for **IPassportManager2::AuthUrl2**. See Passport documentation for **IPassportManager2::AuthUrl2**. See Passport documentation for **IPassportManager2::AuthUrl2**.

AuthUrl2

[C#] public string AuthUrl2(string strReturnUrl, int iTimeWindow, int iForceLogin, string strCoBrandedArgs, int iLangID, string strNameSpace, int iKPP, int iUseSecureAuth);

[C++] public: String* AuthUrl2(String* strReturnUrl, int iTimeWindow, int iForceLogin, String* strCoBrandedArgs, int iLangID, String* strNameSpace, int iKPP, int iUseSecureAuth);

[VB] Public Function AuthUrl2(ByVal strReturnUrl As String, ByVal iTimeWindow As Integer, ByVal iForceLogin As Integer, ByVal strCoBrandedArgs As String, ByVal iLangID As Integer, ByVal strNameSpace As String, ByVal iKPP As Integer, ByVal iUseSecureAuth As Integer) As String

[JScript] public function AuthUrl2(strReturnUrl : String, iTimeWindow : int, iForceLogin : int, strCoBrandedArgs : String, iLangID : int, strNameSpace : String, iKPP : int, iUseSecureAuth : int) : String;

Description

Retrieves a **String** containing the logon server URL for a member, as well as the optional information sent to the logon server in the query string.

Return Value: The logon server URL for a member, as well as the optional information sent to the logon server in the query string.

You can use this URL to generate a link for a member who has not previously signed in or who has an expired ticket. For more details, see **IPassportManager2::AuthUrl2** in the Passport SDK documentation. See Passport documentation for **IPassportManager2::AuthUrl2**. See Passport documentation for **IPassportManager2::AuthUrl2**. See Passport documentation for **IPassportManager2::AuthUrl2**. See Passport documentation for **IPassportManager2::AuthUrl2**. See Passport documentation for **IPassportManager2::AuthUrl2**. See Passport documentation for **IPassportManager2::AuthUrl2**. See Passport documentation for **IPassportManager2::AuthUrl2**.

Compress

```
[C#] public static string Compress(string strData);
[C++] public: static String* Compress(String* strData);
[VB] Public Shared Function Compress(ByVal strData As String) As String
[JScript] public static function Compress(strData : String) : String;
```

Description

Compresses data.

Return Value: Compressed data.

For more information about **IPassportCrypt::Compress** , see the Passport SDK documentation . Data to be compressed.

CryptIsValid

```
[C#] public static bool CryptIsValid();
[C++] public: static bool CryptIsValid();
[VB] Public Shared Function CryptIsValid() As Boolean
[JScript] public static function CryptIsValid() : Boolean;
```

Description

Returns **true** if the key used for encryption and decryption is valid and if the Passport **Manager** object is in a valid state for encryption.

See the Passport SDK documentation for **IPassportCrypt::get_IsValid** .

CryptPutHost

```
[C#] public static int CryptPutHost(string strHost);
[C++] public: static int CryptPutHost(String* strHost);
[VB] Public Shared Function CryptPutHost(ByVal strHost As String) As Integer
[JScript] public static function CryptPutHost(strHost : String) : int;
```

Description

Sets the key being used by the current Passport **Crypt** object by referring to the host name or IP address used by the desired installation.

See the Passport SDK documentation for **IPassportCrypt::put_Host** .

Host name or IP address.

CryptPutSite

```
[C#] public static int CryptPutSite(string strSite);
```

[C++] public: static int CryptPutSite(String* strSite);

[VB] Public Shared Function CryptPutSite(ByVal strSite As String) As Integer

[JScript] public static function CryptPutSite(strSite : String) : int;

Description

Sets the key being used by the current Passport **Crypt** object by referring to the site-name label assigned to that key when the key was first installed.

See the Passport SDK documentation for **IPassportCrypt::put_Site** .

Decompress

[C#] public static string Decompress(string strData);

[C++] public: static String* Decompress(String* strData);

[VB] Public Shared Function Decompress(ByVal strData As String) As String

[JScript] public static function Decompress(strData : String) : String;

Description

Decompresses data that has been compressed by the **Compress** method..

Return Value: Decompressed data.

See the Passport SDK documentation for **IPassportCrypt::Compress** .

Data to be decompressed.

Decrypt

[C#] public static string Decrypt(string strData);

[C++] public: static String* Decrypt(String* strData);

[VB] Public Shared Function Decrypt(ByVal strData As String) As String

[JScript] public static function Decrypt(strData : String) : String;

Description

Decrypts data using the Passport participant key for the current site.

Return Value: Decrypted data.

See the Passport SDK documentation for **IPassportCrypt::Decrypt** . The data to be decrypted.

Encrypt

[C#] public static string Encrypt(string strData);

[C++] public: static String* Encrypt(String* strData);

[VB] Public Shared Function Encrypt(ByVal strData As String) As String

[JScript] public static function Encrypt(strData : String) : String;

Description

Encrypts data using the Passport participant key for the current site. Maximum input size is 2045 characters.

Return Value: Encrypted data.

See the Passport SDK documentation for **IPassportCrypt::Encrypt** . The data to be encrypted.

Finalize

[C#] ~PassportIdentity();

[C++] ~PassportIdentity();

[VB] Overrides Protected Sub Finalize()

[JScript] protected override function Finalize();

Description

Calls **Finalize** method.

GetDomainAttribute

[C#] public string GetDomainAttribute(string strAttribute, int iLCID, string strDomain);

[C++] public: String* GetDomainAttribute(String* strAttribute, int iLCID, String* strDomain);

[VB] Public Function GetDomainAttribute(ByVal strAttribute As String, ByVal iLCID As Integer, ByVal strDomain As String) As String

[JScript] public function GetDomainAttribute(strAttribute : String, iLCID : int, strDomain : String) : String;

Description

Provides information for a Passport domain by querying the Passport CCD for the requested **DomainAttribute** .

For more information, see the Passport SDK documentation . The name of the attribute value to retrieve. Specifies the language in which various Passport network pages should be displayed to the member. The domain authority name to query for an attribute.

GetDomainFromMemberName

[C#] public string GetDomainFromMemberName(string strMemberName);

[C++] public: String* GetDomainFromMemberName(String* strMemberName);

[VB] Public Function GetDomainFromMemberName(ByVal strMemberName As String) As String

[JScript] public function GetDomainFromMemberName(strMemberName : String) : String;

Description

Returns the Passport domain from the member-name string. Name of the Passport member

GetIsAuthenticated

[C#] public bool GetIsAuthenticated(int iTimeWindow, bool bForceLogin, bool bCheckSecure);

[C++] public: bool GetIsAuthenticated(int iTimeWindow, bool bForceLogin, bool bCheckSecure);

[VB] Public Function GetIsAuthenticated(ByVal iTimeWindow As Integer, ByVal bForceLogin As Boolean, ByVal bCheckSecure As Boolean) As Boolean

[JScript] public function GetIsAuthenticated(iTimeWindow : int, bForceLogin : Boolean, bCheckSecure : Boolean) : Boolean; Returns **true** if the user is authenticated by a Passport authority.

Description

Returns **true** if the user is authenticated by a Passport authority.

Return Value: **true** if the user is authenticated by a Passport authority.

See passport documentation for **IPassportManager::IsAuthenticated** . Specifies the interval during which members must have last signed in to the calling domain. Determines how *iTimeWindow* is used. Enables checking for a secure logon.

GetIsAuthenticated

[C#] public bool GetIsAuthenticated(int iTimeWindow, int iForceLogin, int iCheckSecure);

[C++] public: bool GetIsAuthenticated(int iTimeWindow, int iForceLogin, int iCheckSecure);

[VB] Public Function GetIsAuthenticated(ByVal iTimeWindow As Integer, ByVal iForceLogin As Integer, ByVal iCheckSecure As Integer) As Boolean

[JScript] public function GetIsAuthenticated(iTimeWindow : int, iForceLogin : int, iCheckSecure : int) : Boolean;

Description

Returns **true** if the user is authenticated by a Passport authority.

Return Value: **true** if the user is authenticated by a Passport authority.

See Passport documentation for **IPassportManager::IsAuthenticated** . Specifies the interval during which members must have last signed in to the calling domain. Determines how *iTimeWindow* is used. Enables checking for a secure logon.

GetProfileObject

[C#] public object GetProfileObject(string strProfileName);

```
[C++] public: Object* GetProfileObject(String* strProfileName);
[VB] Public Function GetProfileObject(ByVal strProfileName As String) As
Object
[JScript] public function GetProfileObject(strProfileName : String) : Object;
```

Description

Returns Passport profile information for the supplied profile attribute. The Passport profile attribute to query.

HasFlag

```
[C#] public bool HasFlag(int iFlagMask);
[C++] public: bool HasFlag(int iFlagMask);
[VB] Public Function HasFlag(ByVal iFlagMask As Integer) As Boolean
[JScript] public function HasFlag(iFlagMask : int) : Boolean;
```

Description

Returns **true** if a given flag is set in this user's profile.

For more information, see the Passport SDK documentation . The Passport profile flag to query.

HasProfile

```
[C#] public bool HasProfile(string strProfile);
[C++] public: bool HasProfile(String* strProfile);
[VB] Public Function HasProfile(ByVal strProfile As String) As Boolean
[JScript] public function HasProfile(strProfile : String) : Boolean;
```

Description

Returns **true** if a given profile attribute exists in this user's profile.

For more information, see the Passport SDK documentation . The Passport profile attribute to query.

HaveConsent

[C#] public bool HaveConsent(bool bNeedFullConsent, bool bNeedBirthdate);

[C++] public: bool HaveConsent(bool bNeedFullConsent, bool bNeedBirthdate);

[VB] Public Function HaveConsent(ByVal bNeedFullConsent As Boolean, ByVal bNeedBirthdate As Boolean) As Boolean

[JScript] public function HaveConsent(bNeedFullConsent : Boolean, bNeedBirthdate : Boolean) : Boolean;

Description

Returns **true** if Full Consent is granted in this user's profile.

For more information, see the Passport SDK documentation . true if Full Consent is required for Passport Authentication.

LoginUser

[C#] public int LoginUser();

[C++] public: int LoginUser();

[VB] Public Function LoginUser() As Integer

[JScript] public function LoginUser() : int;

Description

Logs the user on, either by generating a 302-redirect URL or initiating a Passport-aware client authentication exchange.

This method supports Passport-aware client applications. Note that there are some policy restrictions on the use of this method in certain scenarios. Note also that this method should not be called from a frameset, as suggested in the Passport documentation. Finally, this method requires that Msppfltr.dll be properly installed and running as an ISAPI filter at the global level of the participant Web site.

LoginUser

[C#] public int LoginUser(string szRetURL, int iTimeWindow, bool fForceLogin, string szCOBrandArgs, int iLangID, string strNameSpace, int iKPP, bool fUseSecureAuth, object oExtraParams);

[C++] public: int LoginUser(String* szRetURL, int iTimeWindow, bool fForceLogin, String* szCOBrandArgs, int iLangID, String* strNameSpace, int iKPP, bool fUseSecureAuth, Object* oExtraParams);

[VB] Public Function LoginUser(ByVal szRetURL As String, ByVal iTimeWindow As Integer, ByVal fForceLogin As Boolean, ByVal szCOBrandArgs As String, ByVal iLangID As Integer, ByVal strNameSpace As String, ByVal iKPP As Integer, ByVal fUseSecureAuth As Boolean, ByVal oExtraParams As Object) As Integer

[JScript] public function LoginUser(szRetURL : String, iTimeWindow : int, fForceLogin : Boolean, szCOBrandArgs : String, iLangID : int, strNameSpace :

String, iKPP : int, fUseSecureAuth : Boolean, oExtraParams : Object) : int; Logs the user on, either by generating a 302-redirect URL or initiating a Passport-aware client authentication exchange.

Description

Logs the user on, either by generating a 302-redirect URL or initiating a Passport-aware client authentication exchange.

This method supports Passport-aware client applications. Note that there are some policy restrictions on the use of this method in certain scenarios. Note also that this method should not be called from a frameset, as suggested in the Passport documentation. Finally, this method requires that Msppfltr.dll be properly installed and running as an ISAPI filter at the global level of the participant Web site. See Passport documentation for **IPassportManager2::LoginUser** . See Passport documentation for **IPassportManager2::LoginUser** . See Passport documentation for **IPassportManager2::LoginUser** . See Passport documentation for **IPassportManager2::LoginUser** . See Passport documentation for **IPassportManager2::LoginUser** . See Passport documentation for **IPassportManager2::LoginUser** . See Passport documentation for **IPassportManager2::LoginUser** .

LoginUser

[C#] public int LoginUser(string szRetURL, int iTimeWindow, int fForceLogin, string szCOBrandArgs, int iLangID, string strNameSpace, int iKPP, int iUseSecureAuth, object oExtraParams);

[C++] public: int LoginUser(String* szRetURL, int iTimeWindow, int fForceLogin, String* szCOBrandArgs, int iLangID, String* strNameSpace, int iKPP, int iUseSecureAuth, Object* oExtraParams);

[VB] Public Function LoginUser(ByVal szRetURL As String, ByVal iTimeWindow As Integer, ByVal fForceLogin As Integer, ByVal szCOBrandArgs As String, ByVal iLangID As Integer, ByVal strNameSpace As String, ByVal iKPP As Integer, ByVal iUseSecureAuth As Integer, ByVal oExtraParams As Object) As Integer

[JScript] public function LoginUser(szRetURL : String, iTimeWindow : int, fForceLogin : int, szCOBrandArgs : String, iLangID : int, strNameSpace : String, iKPP : int, iUseSecureAuth : int, oExtraParams : Object) : int;

Description

Logs the user on, either by generating a 302-redirect URL or initiating a Passport-aware client authentication exchange.

This method supports Passport-aware client applications. Note that there are some policy restrictions on the use of this method in certain scenarios. Note also that this method should not be called from a frameset, as suggested in the Passport documentation. Finally, this method requires that Msppfltr.dll be properly installed and running as an ISAPI filter at the global level of the participant Web site. See Passport documentation for **IPassportManager2::LoginUser** . See Passport documentation for **IPassportManager2::LoginUser** . See Passport documentation for **IPassportManager2::LoginUser** . See Passport documentation for **IPassportManager2::LoginUser** . See Passport documentation for **IPassportManager2::LoginUser** . See Passport documentation for **IPassportManager2::LoginUser** . See Passport documentation for **IPassportManager2::LoginUser** .

LogoTag

[C#] public string LogoTag();

[C++] public: String* LogoTag();

[VB] Public Function LogoTag() As String

[JScript] public function LogoTag() : String;

Description

Returns an HTML snippet containing an image tag for a Passport link. This is based on the current state of the identity (already signed in, and such).

LogoTag

[C#] public string LogoTag(string strReturnUrl, int iTimeWindow, bool fForceLogin, string strCoBrandedArgs, int iLangID, bool fSecure, string strNameSpace, int iKPP, bool bUseSecureAuth);

[C++] public: String* LogoTag(String* strReturnUrl, int iTimeWindow, bool fForceLogin, String* strCoBrandedArgs, int iLangID, bool fSecure, String* strNameSpace, int iKPP, bool bUseSecureAuth);

[VB] Public Function LogoTag(ByVal strReturnUrl As String, ByVal iTimeWindow As Integer, ByVal fForceLogin As Boolean, ByVal strCoBrandedArgs As String, ByVal iLangID As Integer, ByVal fSecure As Boolean, ByVal strNameSpace As String, ByVal iKPP As Integer, ByVal bUseSecureAuth As Boolean) As String

[JScript] public function LogoTag(strReturnUrl : String, iTimeWindow : int, fForceLogin : Boolean, strCoBrandedArgs : String, iLangID : int, fSecure : Boolean, strNameSpace : String, iKPP : int, bUseSecureAuth : Boolean) : String;

Description

Similar to LogoTag(), this method returns an HTML snippet for the Passport Logo for the current member

For additional details on the parameters for this method, see the Passport SDK documentation. Sets the URL of the location that the Login server should redirect members to after sign-in is complete. Specifies the interval during which members must have last signed in. Determines how iTimeWindow gets used. Specifies variables to be appended as query string variables to the URL of the participant's Co-branding Template script page. Specifies the language to be used for the Login page that is displayed to the member. Declares whether this method is being called from an HTTPS (SSL) page. Specifies the domain in which the Passport should be created. Specifies data collection policies for purposes of COPPA compliance. Declares whether the actual sign-in UI should be served HTTPS from the Passport domain authority.

LogoTag

[C#] public string LogoTag(string strReturnUrl, int iTimeWindow, int iForceLogin, string strCoBrandedArgs, int iLangID, int iSecure, string strNameSpace, int iKPP, int iUseSecureAuth);

[C++] public: String* LogoTag(String* strReturnUrl, int iTimeWindow, int iForceLogin, String* strCoBrandedArgs, int iLangID, int iSecure, String*

```
strNameSpace, int iKPP, int iUseSecureAuth);
[VB] Public Function LogoTag(ByVal strReturnUrl As String, ByVal iTimeWindow As Integer, ByVal iForceLogin As Integer, ByVal strCoBrandedArgs As String, ByVal iLangID As Integer, ByVal iSecure As Integer, ByVal strNameSpace As String, ByVal iKPP As Integer, ByVal iUseSecureAuth As Integer) As String
[JScript] public function LogoTag(strReturnUrl : String, iTimeWindow : int, iForceLogin : int, strCoBrandedArgs : String, iLangID : int, iSecure : int, strNameSpace : String, iKPP : int, iUseSecureAuth : int) : String;
```

Description

LogoTag2

```
[C#] public string LogoTag2();
[C++] public: String* LogoTag2();
[VB] Public Function LogoTag2() As String
```

[JScript] public function LogoTag2() : String; Returns an HTML fragment containing an < **img** > tag for a Passport link. This is based on the current state of the identity (already logged on, and so on).

Description

Returns an HTML fragment containing an < **img** > tag for a Passport link. This is based on the current state of the identity (already logged on, and so on).

The link image displays either **Sign In** if no valid ticket cookie is detected, or **Sign Out** if a valid cookie ticket is detected. For more details, see **IPassportManager2::LogoTag2** in the Passport SDK documentation.

LogoTag2

```
[C#] public string LogoTag2(string strReturnUrl, int iTimeWindow, bool
fForceLogin, string strCoBrandedArgs, int iLangID, bool fSecure, string
strNameSpace, int iKPP, bool bUseSecureAuth);
[C++] public: String* LogoTag2(String* strReturnUrl, int iTimeWindow, bool
fForceLogin, String* strCoBrandedArgs, int iLangID, bool fSecure, String*
strNameSpace, int iKPP, bool bUseSecureAuth);
[VB] Public Function LogoTag2(ByVal strReturnUrl As String, ByVal
iTimeWindow As Integer, ByVal fForceLogin As Boolean, ByVal
strCoBrandedArgs As String, ByVal iLangID As Integer, ByVal fSecure As
Boolean, ByVal strNameSpace As String, ByVal iKPP As Integer, ByVal
bUseSecureAuth As Boolean) As String
[JScript] public function LogoTag2(strReturnUrl : String, iTimeWindow : int,
fForceLogin : Boolean, strCoBrandedArgs : String, iLangID : int, fSecure :
Boolean, strNameSpace : String, iKPP : int, bUseSecureAuth : Boolean) : String;
```

Description

Returns an HTML fragment containing an < **img** > tag for a Passport link. This is based on the current state of the identity (already logged on, and so on).

The link image displays either **Sign In** if no valid ticket cookie is detected, or **Sign Out** if a valid cookie ticket is detected. For more details, see

IPassportManager2::LogoTag2 in the Passport SDK documentation. See Passport documentation for **IPassportManager2::LoginUser** . See Passport documentation for **IPassportManager2::LoginUser** . See Passport documentation for **IPassportManager2::LoginUser** . See Passport documentation for **IPassportManager2::LoginUser** . See Passport documentation for **IPassportManager2::LoginUser** . See Passport documentation for **IPassportManager2::LoginUser** . See Passport documentation for **IPassportManager2::LoginUser** .

LogoTag2

```
[C#] public string LogoTag2(string strReturnUrl, int iTimeWindow, int iForceLogin, string strCoBrandedArgs, int iLangID, int iSecure, string strNameSpace, int iKPP, int iUseSecureAuth);
[C++] public: String* LogoTag2(String* strReturnUrl, int iTimeWindow, int iForceLogin, String* strCoBrandedArgs, int iLangID, int iSecure, String* strNameSpace, int iKPP, int iUseSecureAuth);
[VB] Public Function LogoTag2(ByVal strReturnUrl As String, ByVal iTimeWindow As Integer, ByVal iForceLogin As Integer, ByVal strCoBrandedArgs As String, ByVal iLangID As Integer, ByVal iSecure As Integer, ByVal strNameSpace As String, ByVal iKPP As Integer, ByVal iUseSecureAuth As Integer) As String
[JScript] public function LogoTag2(strReturnUrl : String, iTimeWindow : int, iForceLogin : int, strCoBrandedArgs : String, iLangID : int, iSecure : int, strNameSpace : String, iKPP : int, iUseSecureAuth : int) : String;
```

Description

Returns an HTML fragment containing an < **img** > tag for a Passport link. This is based on the current state of the identity (already logged on, and so on).

The link image displays either **Sign In** if no valid ticket cookie is detected, or **Sign Out** if a valid cookie ticket is detected. For more details, see **IPassportManager2::LogoTag2** in the Passport SDK documentation. See Passport documentation for **IPassportManager2::LoginUser** . See Passport documentation for **IPassportManager2::LoginUser** . See Passport documentation for **IPassportManager2::LoginUser** . See Passport documentation for **IPassportManager2::LoginUser** . See Passport documentation for **IPassportManager2::LoginUser** . See Passport documentation for **IPassportManager2::LoginUser** . See Passport documentation for **IPassportManager2::LoginUser** .

SignOut

[C#] public static void SignOut(string strSignOutDotGifFileName);

[C++] public: static void SignOut(String* strSignOutDotGifFileName);

[VB] Public Shared Sub SignOut(ByVal strSignOutDotGifFileName As String)

[JScript] public static function SignOut(strSignOutDotGifFileName : String);

Description

Logs off the given Passport member from the current session.

For more information, see the Passport SDK documentation . The *SignOut* image to be used.

UrlAuthorizationModule class (System.Web.Security)

ToString

Description

Provides URL-based authorization services for allowing or denying access to specified resources. This class cannot be inherited.

UrlAuthorizationModule

Example Syntax:

ToString

```
[C#] public UrlAuthorizationModule();
[C++] public: UrlAuthorizationModule();
[VB] Public Sub New()
[JScript] public function UrlAuthorizationModule();
```

Dispose

```
[C#] public void Dispose();
[C++] public: __sealed void Dispose();
[VB] NotOverridable Public Sub Dispose()
[JScript] public function Dispose();
```

Description

Called by the HTTP runtime to dispose of the module.

Call **System.Web.Security.UrlAuthorizationModule.Dispose** when you are finished using the **System.Web.Security.UrlAuthorizationModule** . The **System.Web.Security.UrlAuthorizationModule.Dispose** method leaves the **System.Web.Security.UrlAuthorizationModule** in an unusable state. After calling **System.Web.Security.UrlAuthorizationModule.Dispose** , you must release all references to the **System.Web.Security.UrlAuthorizationModule** so the memory it occupid can be reclaimed by garbage collection.

Init

```
[C#] public void Init(HttpApplication app);
[C++] public: __sealed void Init(HttpApplication* app);
[VB] NotOverridable Public Sub Init(ByVal app As HttpApplication)
[JScript] public function Init(app : HttpApplication);
```

Description

Initializes the module. The **Http application** .

WindowsAuthenticationEventArgs class (System.Web.Security)

ToString

Description

Provides data for the **WindowsAuthentication** event.

This is the event argument passed to the **WindowsAuthentication_OnAuthenticate** event handler. Contains a **WindowsIdentity** object and the **IPrincipal** object used for the context.

WindowsAuthenticationEventArgs

Example Syntax:

ToString

[C#] public WindowsAuthenticationEventArgs(WindowsIdentity identity, HttpContext context);

[C++] public: WindowsAuthenticationEventArgs(WindowsIdentity* identity, HttpContext* context);

[VB] Public Sub New(ByVal identity As WindowsIdentity, ByVal context As HttpContext)

[JScript] public function WindowsAuthenticationEventArgs(identity : WindowsIdentity, context : HttpContext);

Description

Initializes a newly created instance of the WindowsAuthenticationEventArgs Class. The windows identity object. The context for the event.

Context

ToString

[C#] public HttpContext Context {get;}

[C++] public: __property HttpContext* get_Context();

[VB] Public ReadOnly Property Context As HttpContext

[JScript] public function get Context() : HttpContext;

Description

The HttpContext intrinsic (provides access to Request, Response, and User objects).

Identity

ToString

```
[C#] public WindowsIdentity Identity {get;}
[C++] public: __property WindowsIdentity* get_Identity();
[VB] Public ReadOnly Property Identity As WindowsIdentity
[JScript] public function get Identity() : WindowsIdentity;
```

Description

An authenticated Windows identity.

User

ToString

```
[C#] public IPrincipal User {get; set;}
[C++] public: __property IPrincipal* get_User();public: __property void
set_User(IPrincipal*);
[VB] Public Property User As IPrincipal
[JScript] public function get User() : IPrincipal;public function set
User(IPrincipal);
```

Description

IPrincipal object to be associated with the request. The user object should be attached to the contextIf User is non null and Context.User is null, the WindowsAuthenticationModule will initialize Context.User with WindowsAuthenticationEventArgs.User.

WindowsAuthenticationEventHandler delegate (System.Web.Security)

ToString

Description

Represents the method that handles the **WindowsAuthentication_OnAuthenticate** event of a **WindowsAuthenticationModule** . The source of the event. A **WindowsAuthenticationEventArg** that contains the event data.

When you create a **System.Web.Security.WindowsAuthenticationEventHandler** delegate, you identify the method to handle the event. To associate the event with your EventHandler, add an instance of the delegate to the event. The EventHandler is called whenever the event occurs, unless you remove the delegate. For more information about EventHandler delegates, see .

WindowsAuthenticationModule class (System.Web.Security)

ToString

Description

Enables ASP.NET applications to use Windows/IIS authentication. This class cannot be inherited.

WindowsAuthenticationModule

Example Syntax:

ToString

```
[C#] public WindowsAuthenticationModule();
[C++] public: WindowsAuthenticationModule();
[VB] Public Sub New()
[JScript] public function WindowsAuthenticationModule();
```

ToString

```
[C#] public event WindowsAuthenticationEventHandler Authenticate;
[C++] public: __event WindowsAuthenticationEventHandler* Authenticate;
[VB] Public Event Authenticate As WindowsAuthenticationEventHandler
```

Description

Raised during authentication. This is a Global.asax event that must be named **PassportAuthentication_OnAuthenticate** event. It is used primarily to attach a custom **IPrincipal** object to the context.

For more information about handling events, see .

Dispose

```
[C#] public void Dispose();
[C++] public: __sealed void Dispose();
```

[VB] NotOverridable Public Sub Dispose()

[JScript] public function Dispose();

Description

Disposes of the module derived from **IHttpModule** when called by the **HttpRuntime** .

Call **System.Web.Security.WindowsAuthenticationModule.Dispose** when you are finished using the **System.Web.Security.WindowsAuthenticationModule** . The **System.Web.Security.WindowsAuthenticationModule.Dispose** method leaves the **System.Web.Security.WindowsAuthenticationModule** in an unusable state. After calling **System.Web.Security.WindowsAuthenticationModule.Dispose** , you must release all references to the **System.Web.Security.WindowsAuthenticationModule** so the memory it occupied can be reclaimed by garbage collection.

Init

[C#] public void Init(HttpApplication app);

[C++] public: __sealed void Init(HttpApplication* app);

[VB] NotOverridable Public Sub Init(ByVal app As HttpApplication)

[JScript] public function Init(app : HttpApplication);

Description

Initializes the module derived from **IHttpModule** when cal

System.Web.Services

Description

The **System.Web.Services** namespace consists of the classes that enable you to build and use Web Services. A Web Service is a programmable entity residing on a Web Server exposed via standard Internet protocols.

WebMethodAttribute class (System.Web.Services)

Description

Adding this attribute to a method within an ASP.NET Web Service makes the method callable from remote Web clients. This class cannot be inherited.

Methods within a class that have this attribute set are called Web Service methods. The method and class must be public and running inside an ASP.NET Web application.

Constructors:

WebMethodAttribute

Example Syntax:

[C#] public WebMethodAttribute();

[C++] public: WebMethodAttribute();

[VB] Public Sub New()

[JScript] public function WebMethodAttribute(); Initializes a new instance of the

System.Web.Services.WebMethodAttribute class.

Description

Initializes a new instance of the **System.Web.Services.WebMethodAttribute** class.

WebMethodAttribute

Example Syntax:

[C#] public WebMethodAttribute(bool enableSession);

[C++] public: WebMethodAttribute(bool enableSession);

[VB] Public Sub New(ByVal enableSession As Boolean)

[JScript] public function WebMethodAttribute(enableSession : Boolean);

Description

Initializes a new instance of the **System.Web.Services.WebMethodAttribute** class. Initializes whether session state is enabled for the Web Service method.

WebMethodAttribute

Example Syntax:

[C#] public WebMethodAttribute(bool enableSession, TransactionOption transactionOption);

[C++] public: WebMethodAttribute(bool enableSession, TransactionOption transactionOption);

[VB] Public Sub New(ByVal enableSession As Boolean, ByVal transactionOption

As TransactionOption)

[JScript] public function WebMethodAttribute(enableSession : Boolean, transactionOption : TransactionOption);

Description

Initializes a new instance of the **System.Web.Services.WebMethodAttribute** class. Initializes whether session state is enabled for the Web Service method. Initializes the transaction support of a Web Service method.

WebMethodAttribute

Example Syntax:

[C#] public WebMethodAttribute(bool enableSession, TransactionOption transactionOption, int cacheDuration);

[C++] public: WebMethodAttribute(bool enableSession, TransactionOption transactionOption, int cacheDuration);

[VB] Public Sub New(ByVal enableSession As Boolean, ByVal transactionOption As TransactionOption, ByVal cacheDuration As Integer)

[JScript] public function WebMethodAttribute(enableSession : Boolean, transactionOption : TransactionOption, cacheDuration : int);

Description

Initializes a new instance of the **System.Web.Services.WebMethodAttribute** class. Initializes whether session state is enabled for the Web Service method. Initializes the transaction support of a Web Service method. Initializes the number of seconds the response is cached.

WebMethodAttribute

Example Syntax:

```
[C#] public WebMethodAttribute(bool enableSession, TransactionOption
transactionOption, int cacheDuration, bool bufferResponse);
[C++] public: WebMethodAttribute(bool enableSession, TransactionOption
transactionOption, int cacheDuration, bool bufferResponse);
[VB] Public Sub New(ByVal enableSession As Boolean, ByVal transactionOption
As TransactionOption, ByVal cacheDuration As Integer, ByVal bufferResponse
As Boolean)
[JScript] public function WebMethodAttribute(enableSession : Boolean,
transactionOption : TransactionOption, cacheDuration : int, bufferResponse :
Boolean);
```

Description

Initializes a new instance of the **System.Web.Services.WebMethodAttribute** class. Initializes whether session state is enabled for the Web Service method. Initializes the transaction support of a Web Service method. Initializes the number of seconds the response is cached. Initializes whether the response for this request is buffered.

Properties:

BufferResponse

```
[C#] public bool BufferResponse {get; set;}
[C++] public: __property bool get_BufferResponse();public: __property void set_BufferResponse(bool);
[VB] Public Property BufferResponse As Boolean
[JScript] public function get BufferResponse() : Boolean;public function set BufferResponse(Boolean);
```

Description

Gets or sets whether the response for this request is buffered.

Setting **System.Web.Services.WebMethodAttribute.BufferResponse** to **true** , serializes the response of the Web Service method into a memory buffer until either the response is completely serialized or the buffer is full. Once the response is buffered, it is returned to the Web Service client over the network. When **System.Web.Services.WebMethodAttribute.BufferResponse** is **false** , the response to the Web Service method is sent back to the client as it is serialized. In general, you only want to set **System.Web.Services.WebMethodAttribute.BufferResponse** to **false** , if it is known that a Web Service method returns large amounts of data to the client. For smaller amounts of data, Web Service performance is better with **System.Web.Services.WebMethodAttribute.BufferResponse** to **true** .

CacheDuration

```
[C#] public int CacheDuration {get; set;}
[C++] public: __property int get_CacheDuration();public: __property void
```

set_CacheDuration(int);

[VB] Public Property CacheDuration As Integer

[JScript] public function get CacheDuration() : int;public function set CacheDuration(int);

Description

Gets or sets the number of seconds the response should be held in the cache.

When caching is enabled requests and responses are held in memory on the server for at least the cache duration so caution must be used if you expect requests or responses to be very large or you expect requests to vary widely.

Description

[C#] public string Description {get; set;}

[C++] public: __property String* get_Description();public: __property void set_Description(String*);

[VB] Public Property Description As String

[JScript] public function get Description() : String;public function set Description(String);

Description

A descriptive message describing the Web Service method.

The descriptive message is displayed to prospective consumers of the Web Service when description documents for the Web Service are generated, such as the Service Description and the Service help page.

EnableSession

[C#] public bool EnableSession {get; set;}

[C++] public: __property bool get_EnableSession();public: __property void set_EnableSession(bool);

[VB] Public Property EnableSession As Boolean

[JScript] public function get EnableSession() : Boolean;public function set EnableSession(Boolean);

Description

Indicates whether session state is enabled for a Web Service method.

In order to store session state in the ASP.NET **System.Web.SessionState.HttpSessionState** object, the Web Service must inherit from **System.Web.Services.WebService** and a **System.Web.Services.WebMethodAttribute** applied to the Web Service method, setting the **System.Web.Services.WebMethodAttribute.EnableSession** property to **true** . If session state is not needed for a Web Service method, then disabling it may improve performance.

MessageName

[C#] public string MessageName {get; set;}

[C++] public: __property String* get_MessageName();public: __property void set_MessageName(String*);

[VB] Public Property MessageName As String

[JScript] public function get MessageName() : String;public function set

```
MessageName(String);
```

Description

The name used for the Web Service method in the data passed to and returned from a Web Service method.

The **System.Web.Services.WebMethodAttribute.MessageName** property can be used to alias method or property names. The most common use of the **System.Web.Services.WebMethodAttribute.MessageName** property will be to uniquely identify polymorphic methods. By default, **System.Web.Services.WebMethodAttribute.MessageName** is set to the name of the Web Service method. Therefore, if a Web Service contains two or more Web Service methods with the same name, you can uniquely identify the individual Web Service methods by setting the **System.Web.Services.WebMethodAttribute.MessageName** to a name unique within the Web Service, without changing the name of the actual method name in code.

TransactionOption

```
[C#] public TransactionOption TransactionOption {get; set;}
[C++] public: __property TransactionOption get_TransactionOption();public: __property void set_TransactionOption(TransactionOption);
[VB] Public Property TransactionOption As TransactionOption
[JScript] public function get TransactionOption() : TransactionOption;public function set TransactionOption(TransactionOption);
```

Description

Indicates the transaction support of a Web Service method.

Web Service methods can only participate as the root object in a transaction, due to the stateless nature of the HTTP protocol. Web Service methods can invoke COM objects that participate in the same transaction as the Web Service method, if the COM object is marked to run within a transaction in the Component Services administrative tool. If a Web Service method, with a **System.Web.Services.WebMethodAttribute.TransactionOption** property of **Required** or **RequiresNew** invokes another Web Service method with a **System.Web.Services.WebMethodAttribute.TransactionOption** property of **Required** or **RequiresNew** , each Web Service method participates in their own transaction, because a Web Service method can only act as the root object in a transaction.

TypeId

Methods:

WebService class (System.Web.Services)

ToString

Description

Defines the optional base class for Web Services, which provides direct access to common ASP.NET objects, like those for application and session state.

If you don't need access to the common ASP.NET objects, you can still create a Web Service without deriving from **System.Web.Services.WebService** .

Additional ASP.NET objects can be accessed through **System.Web.Services.WebService.Context** .

WebService

Example Syntax:

ToString

```
[C#] public WebService();
[C++] public: WebService();
[VB] Public Sub New()
[JScript] public function WebService();
```

Application

ToString

```
[C#] public HttpApplicationState Application {get;}
[C++] public: __property HttpApplicationState* get_Application();
[VB] Public ReadOnly Property Application As HttpApplicationState
[JScript] public function get Application() : HttpApplicationState;
```

Description

Gets the application object for the current HTTP request.

Web Services can utilize both application state and session state. Application state is maintained across all sessions accessing a Web Service regardless of whether session state is turned off for a method(by using the **System.Web.Services.WebMethodAttribute.EnableSession** property of the **System.Web.Services.WebMethodAttribute**).

Container

Context

ToString

Description

Gets the ASP.NET **System.Web.HttpContext** for the current request, which encapsulates all HTTP-specific context used by the HTTP server to process Web requests.

If a Web Service method is one-way, then the **System.Web.Services.WebService.Context** property is always **null** . A Web Service is one-way when a **System.Web.Services.Protocols.SoapDocumentMethodAttribute** or **System.Web.Services.Protocols.SoapRpcMethodAttribute** is applied to a Web Service method and the **System.Web.Services.Protocols.SoapDocumentMethodAttribute.OneWay** property is set to **true** .

DesignMode

Events

Server

ToString

Description

Gets the **System.Web.HttpServerUtility** for the current request.

The **System.Web.HttpServerUtility** class provides several methods that can be used in the processing of Web requests, including **System.Web.HttpServerUtility.CreateObject(System.String)** (for instantiating COM objects).

Session

ToString

```
[C#] public HttpSessionState Session {get;}
[C++] public: __property HttpSessionState* get_Session();
[VB] Public ReadOnly Property Session As HttpSessionState
[JScript] public function get Session() : HttpSessionState;
```

Description

Gets the **System.Web.SessionState.HttpSessionState** instance for the current request.

If a Web Service method is one-way, then the **System.Web.Services.WebService.Session** property is always **null** . A Web Service is one-way when a **System.Web.Services.Protocols.SoapDocumentMethodAttribute** or **System.Web.Services.Protocols.SoapRpcMethodAttribute** is applied to a Web Service method and the **System.Web.Services.Protocols.SoapDocumentMethodAttribute.OneWay** property is set to **true** .

Site .

User

ToString

Description

Gets the ASP.NET server **System.Web.HttpContext.User** object. Can be used to authenticate whether a user is authorized to execute the request.

Both Internet Information Services (IIS) and the .NET Framework need to be configured for authentication in order for the **System.Web.Services.WebService.User** property to be meaningful. Authentication is the process of accepting credentials from a user and validating those credentials against some authority. If the credentials are valid, you have an authenticated identity. Authentication in the .NET Framework is configured by placing entries in the web.config file. Placing the XML in the following code into a web.config file sets the authentication mode to Windows.

WebServiceAttribute class (System.Web.Services)

ToString

Description

Used to add additional information to a Web Service, such as a string describing its functionality.

The **System.Web.Services.WebServiceAttribute** is not required for a Web Service to be published and executed. You can use the **WebServiceAttribute** to specify a name for the Web Service that is not restricted by the rules for a Common Language Runtime identifier, which is used in the Service Description and the Service help page for the Web Service.

ToString

[C#] public const string DefaultNamespace;

[C++] public: const String* DefaultNamespace;

[VB] Public Const DefaultNamespace As String

[JScript] public var DefaultNamespace : String;

Description

The default value for the **System.Web.Services.WebServiceAttribute.Namespace** property. This field is constant.

WebServiceAttribute

Example Syntax:

ToString

[C#] public WebServiceAttribute();

[C++] public: WebServiceAttribute();

[VB] Public Sub New()

[JScript] public function WebServiceAttribute();

Description

Initializes a new instance of the **System.Web.Services.WebServiceAttribute** class.

Description

ToString

[C#] public string Description {get; set;}

[C++] public: __property String* get_Description();public: __property void set_Description(String*);

[VB] Public Property Description As String

[JScript] public function get Description() : String;public function set Description(String);

Description

A descriptive message for the Web Service.

The descriptive message is displayed to prospective consumers of the Web Service when description documents for the Web Service are generated, such as the Service Description and the Service help page.

Name

ToString

[C#] public string Name {get; set;}

[C++] public: __property String* get_Name();public: __property void set_Name(String*);

[VB] Public Property Name As String

[JScript] public function get Name() : String;public function set Name(String);

Description

Gets or sets the name of the ASP.NET Web Service.

The Service Description is generated when a user navigates to the URL for the Web Service and supplies a query string of ?WSDL. Within the Service Description, the **System.Web.Services.WebServiceAttribute.Name** property identifies the local part of the XML qualified name for the Web Service. The **Name** property is also used to display the name of the Web Service on the Service help page. The Service help page is displayed when a prospective consumer navigates to the .asmx page for the Web Service without specifying a Web Service method name and its parameters.

Namespace

ToString

```
[C#] public string Namespace {get; set;}
[C++] public: __property String* get_Namespace();public: __property void
set_Namespace(String*);
[VB] Public Property Namespace As String
[JScript] public function get Namespace() : String;public function set
Namespace(String);
```

Description

Gets or sets the default XML namespace to use for the Web Service.

XML namespaces offer a way to create names in an XML document that are identified by a Uniform Resource Identifier (URI). By using XML namespaces you can uniquely identify elements or attributes in a XML document. The Service

Description for a Web Service is defined in XML, specifically in Web Service Description Language (WSDL).

TypeId

WebServiceBindingAttribute class (System.Web.Services)

ToString

Description

Declares the binding one or more Web Service methods implemented within the class implementing the Web Service. This class cannot be inherited.

A binding, as defined by Web Services Description Language(WSDL), is similar to an interface, in that it defines a concrete set of operations. Each Web Service method is an operation within a particular binding. Web Service methods are members of either the default binding for a Web Service or in a binding specified within a **System.Web.Services.WebServiceBindingAttribute** applied to a class implementing a Web Service. A Web Service can implement multiple bindings, by applying multiple **System.Web.Services.WebServiceBindingAttribute** attributes to a Web Service.

WebServiceBindingAttribute

Example Syntax:

ToString

[C#] public WebServiceBindingAttribute();

[C++] public: WebServiceBindingAttribute();

[VB] Public Sub New()

[JScript] public function WebServiceBindingAttribute(); Initializes a new instance of the **System.Web.Services.WebServiceBindingAttribute** class.

Description

Initializes a new instance of the **System.Web.Services.WebServiceBindingAttribute** class.

WebServiceBindingAttribute

Example Syntax:

ToString

[C#] public WebServiceBindingAttribute(string name);

[C++] public: WebServiceBindingAttribute(String* name);

[VB] Public Sub New(ByVal name As String)

[JScript] public function WebServiceBindingAttribute(name : String);

Description

Initializes a new instance of the **System.Web.Services.WebServiceBindingAttribute** class setting the name of the binding the Web Service method is implementing.

This constructor is used to specify a name for a binding defined in the Web Service it is applied to and is a member of the default namespace. The name of the binding a Web Service method is implementing an operation for. Sets the **System.Web.Services.WebServiceBindingAttribute.Name** property.

WebServiceBindingAttribute

Example Syntax:

ToString

[C#] public WebServiceBindingAttribute(string name, string ns);

[C++] public: WebServiceBindingAttribute(String* name, String* ns);

[VB] Public Sub New(ByVal name As String, ByVal ns As String)

[JScript] public function WebServiceBindingAttribute(name : String, ns : String);

Description

Initializes a new instance of the **System.Web.Services.WebServiceBindingAttribute** class.

This constructor is used to specify a name for a binding defined in the Web Service it is applied to that and is a member of the supplied namespace. The name of the binding a Web Service method is implementing an operation for. Sets the **System.Web.Services.WebServiceBindingAttribute.Name** property. The namespace associated with the binding. Sets the **System.Web.Services.WebServiceBindingAttribute.Namespace** property.

WebServiceBindingAttribute

Example Syntax:

ToString

[C#] public WebServiceBindingAttribute(string name, string ns, string location);

[C++] public: WebServiceBindingAttribute(String* name, String* ns, String* location);

[VB] Public Sub New(ByVal name As String, ByVal ns As String, ByVal location As String)

[JScript] public function WebServiceBindingAttribute(name : String, ns : String, location : String);

Description

Initializes a new instance of the **System.Web.Services.WebServiceBindingAttribute** class.

This constructor is used to specify a name for a binding not defined in the Web Service it is applied to that and is a member of the supplied namespace. The name of the binding a Web Service method is implementing an operation for. Sets the **System.Web.Services.WebServiceBindingAttribute.Name** property. The namespace associated with the binding. Sets the **System.Web.Services.WebServiceBindingAttribute.Namespace** property. The location where the binding is defined.

Location

ToString

[C#] public string Location {get; set;}

[C++] public: __property String* get_Location();public: __property void set_Location(String*);

[VB] Public Property Location As String

[JScript] public function get Location() : String;public function set Location(String);

Description

Gets or sets the location where the binding is defined.

Name

ToString

[C#] public string Name {get; set;}

[C++] public: __property String* get_Name();pub

System.Web.Services.Configuration

Description

WebServicesConfigurationSectionHandler class (System.Web.Services.Configuration)

Description

The configuration section handler for the webServices section of the Config.Web configuration file. The section handler participates in the resolution of configuration settings within the webServices portion of a Config.Web.

Constructors:

WebServicesConfigurationSectionHandler

Example Syntax:

[C#] public WebServicesConfigurationSectionHandler();

[C++] public: WebServicesConfigurationSectionHandler();

[VB] Public Sub New()

[JScript] public function WebServicesConfigurationSectionHandler();

Methods:

Create

[C#] public object Create(object parent, object configContext, XmlNode section);

[C++] public: __sealed Object* Create(Object* parent, Object* configContext, XmlNode* section);

[VB] NotOverridable Public Function Create(ByVal parent As Object, ByVal configContext As Object, ByVal section As XmlNode) As Object

[JScript] public function Create(parent : Object, configContext : Object, section : XmlNode) : Object;

Description

Parses the configuration settings for the webServices portion of a Web.config configuration file to populate the values of a WebServicesConfiguration object and returning it. Reference to the "default" value provided by the parent IConfigurationSectionHandler. Provides access to the raw XML contents within a configuration file. The virtual path for which the configuration section handler should compute values.

XmlFormatExtensionAttribute class (System.Web.Services.Configuration)

ToString

Description

XmlFormatExtensionAttribute

Example Syntax:

ToString

[C#] public XmlFormatExtensionAttribute();

[C++] public: XmlFormatExtensionAttribute();

[VB] Public Sub New()

[JScript] public function XmlFormatExtensionAttribute();

Description

XmlFormatExtensionAttribute

Example Syntax:

ToString

[C#] public XmlFormatExtensionAttribute(string elementName, string ns, Type extensionPoint1);

[C++] public: XmlFormatExtensionAttribute(String* elementName, String* ns, Type* extensionPoint1);

[VB] Public Sub New(ByVal elementName As String, ByVal ns As String, ByVal extensionPoint1 As Type)

[JScript] public function XmlFormatExtensionAttribute(elementName : String, ns : String, extensionPoint1 : Type);

XmlFormatExtensionAttribute

Example Syntax:

ToString

[C#] public XmlFormatExtensionAttribute(string elementName, string ns, Type[] extensionPoints);

[C++] public: XmlFormatExtensionAttribute(String* elementName, String* ns, Type* extensionPoints[]);

[VB] Public Sub New(ByVal elementName As String, ByVal ns As String, ByVal extensionPoints() As Type)

[JScript] public function XmlFormatExtensionAttribute(elementName : String, ns : String, extensionPoints : Type[]);

Description

XmlFormatExtensionAttribute

Example Syntax:

ToString

[C#] public XmlFormatExtensionAttribute(string elementName, string ns, Type extensionPoint1, Type extensionPoint2);

[C++] public: XmlFormatExtensionAttribute(String* elementName, String* ns, Type* extensionPoint1, Type* extensionPoint2);

[VB] Public Sub New(ByVal elementName As String, ByVal ns As String, ByVal extensionPoint1 As Type, ByVal extensionPoint2 As Type)

[JScript] public function XmlFormatExtensionAttribute(elementName : String, ns : String, extensionPoint1 : Type, extensionPoint2 : Type);

XmlFormatExtensionAttribute

Example Syntax:

ToString

[C#] public XmlFormatExtensionAttribute(string elementName, string ns, Type extensionPoint1, Type extensionPoint2, Type extensionPoint3);

[C++] public: XmlFormatExtensionAttribute(String* elementName, String* ns, Type* extensionPoint1, Type* extensionPoint2, Type* extensionPoint3);

[VB] Public Sub New(ByVal elementName As String, ByVal ns As String, ByVal extensionPoint1 As Type, ByVal extensionPoint2 As Type, ByVal extensionPoint3 As Type)

[JScript] public function XmlFormatExtensionAttribute(elementName : String, ns : String, extensionPoint1 : Type, extensionPoint2 : Type, extensionPoint3 : Type);

XmlFormatExtensionAttribute

Example Syntax:

ToString

[C#] public XmlFormatExtensionAttribute(string elementName, string ns, Type extensionPoint1, Type extensionPoint2, Type extensionPoint3, Type extensionPoint4);

[C++] public: XmlFormatExtensionAttribute(String* elementName, String* ns, Type* extensionPoint1, Type* extensionPoint2, Type* extensionPoint3, Type* extensionPoint4);

[VB] Public Sub New(ByVal elementName As String, ByVal ns As String, ByVal extensionPoint1 As Type, ByVal extensionPoint2 As Type, ByVal extensionPoint3 As Type, ByVal extensionPoint4 As Type)

[JScript] public function XmlFormatExtensionAttribute(elementName : String, ns : String, extensionPoint1 : Type, extensionPoint2 : Type, extensionPoint3 : Type, extensionPoint4 : Type);

Properties:

ElementName

ToString

[C#] public string ElementName {get; set;}

[C++] public: __property String* get_ElementName();public: __property void set_ElementName(String*);

[VB] Public Property ElementName As String

[JScript] public function get ElementName() : String;public function set ElementName(String);

Description

ExtensionPoints

ToString

[C#] public Type[] ExtensionPoints {get; set;}

[C++] public: __property Type* get_ExtensionPoints();public: __property void set_ExtensionPoints(Type*[]);

[VB] Public Property ExtensionPoints As Type ()

[JScript] public function get ExtensionPoints() : Type[];public function set ExtensionPoints(Type[]);

Description

Namespace

ToString

[C#] public string Namespace {get; set;}

[C++] public: __property String* get_Namespace();public: __property void set_Namespace(String*);

[VB] Public Property Namespace As String

[JScript] public function get Namespace() : String;public function set Namespace(String);

Description

TypeId

XmlFormatExtensionPointAttribute class (System.Web.Services.Configuration)

ToString

Description

XmlFormatExtensionPointAttribute

Example Syntax:

ToString

[C#] public XmlFormatExtensionPointAttribute(string memberName);

[C++] public: XmlFormatExtensionPointAttribute(String* memberName);

[VB] Public Sub New(ByVal memberName As String)

[JScript] public function XmlFormatExtensionPointAttribute(memberName : String);

Description

AllowElements

ToString

[C#] public bool AllowElements {get; set;}

[C++] public: __property bool get_AllowElements();public: __property void set_AllowElements(bool);

[VB] Public Property AllowElements As Boolean

[JScript] public function get AllowElements() : Boolean;public function set AllowElements(Boolean);

Description

MemberName

ToString

[C#] public string MemberName {get; set;}

[C++] public: __property String* get_MemberName();public: __property void set_MemberName(String*);

[VB] Public Property MemberName As String

[JScript] public function get MemberName() : String;public function set MemberName(String);

Description

TypeId

XmlFormatExtensionPrefixAttribute class (System.Web.Services.Configuration)

ToString

Description

XmlFormatExtensionPrefixAttribute

Example Syntax:

ToString

[C#] public XmlFormatExtensionPrefixAttribute();

[C++] public: XmlFormatExtensionPrefixAttribute();

[VB] Public Sub New()

[JScript] public function XmlFormatExtensionPrefixAttribute();

Description

XmlFormatExtensionPrefixAttribute

Example Syntax:

ToString

[C#] public XmlFormatExtensionPrefixAttribute(string prefix, string ns);

[C++] public: XmlFormatExtensionPrefixAttribute(String* prefix, String* ns);

[VB] Public Sub New(ByVal prefix As String, ByVal ns As String)

[JScript] public function XmlFormatExtensionPrefixAttribute(prefix : String, ns : String);

Description

Namespace

ToString

[C#] public string Namespace {get; set;}

[C++] public: __property String* get_Namespace();public: __property void set_Namespace(String*);

[VB] Public Property Namespace As String

[JScript] public function get Namespace() : String;public function set Namespace(String);

Description

Prefix

ToString

[C#] public string Prefix {get; set;}

[C++]

System.Web.Services.Description

Description

The **System.Web.Services.Description** namespace consists of the classes that enable you to publicly describe a Web Service by using the Web Service Description Language (WSDL). Each class in the **System.Web.Services.Description** namespace corresponds to a specific element in the WSDL specification, and the class hierarchy corresponds to the XML structure of a valid WSDL document. For more information about WSDL, see the specification at http://www.w3.org/TR/wsdl/.

Binding class (System.Web.Services.Description)

Description

Specifies the concrete data format and protocols used in the Web Service. This class cannot be inherited.

Constructors:

Binding

Example Syntax:

[C#] public Binding();

[C++] public: Binding();

[VB] Public Sub New()

[JScript] public function Binding();

Properties:

Documentation

Extensions

Description

Gets the collection of extensibility elements used in the Web Service.

Name

[C#] public string Name {get; set;}

[C++] public: __property String* get_Name();public: __property void set_Name(String*);

[VB] Public Property Name As String

[JScript] public function get Name() : String;public function set Name(String);

Description

Gets or sets a string value containing the name of the **System.Web.Services.Description.Binding** .

Operations

[C#] public OperationBindingCollection Operations {get;}

[C++] public: __property OperationBindingCollection* get_Operations();

[VB] Public ReadOnly Property Operations As OperationBindingCollection

[JScript] public function get Operations() : OperationBindingCollection;

Description

Gets the collection of the specifications for data formats and message protocols used in the action supported by the Web Service.

ServiceDescription

[C#] public ServiceDescription ServiceDescription {get;}

[C++] public: __property ServiceDescription* get_ServiceDescription();

[VB] Public ReadOnly Property ServiceDescription As ServiceDescription

[JScript] public function get ServiceDescription() : ServiceDescription;

Description

Gets the **System.Web.Services.Description.ServiceDescription** instance of which the **System.Web.Services.Description.Binding** is a member.

Type

[C#] public XmlQualifiedName Type {get; set;}

[C++] public: __property XmlQualifiedName* get_Type();public: __property void set_Type(XmlQualifiedName*);

[VB] Public Property Type As XmlQualifiedName

[JScript] public function get Type() : XmlQualifiedName;public function set Type(XmlQualifiedName);

Description

Gets or sets a value representing the XML datatype definitions used by the Web Service.

The default implementation is **String.Empty** .

Methods:

BindingCollection class (System.Web.Services.Description)

ToString

Description

Represents a collection of **System.Web.Services.Description.Binding** elements supported by the Web Service. This class cannot be inherited.

Count

InnerList

Item

ToString

System.Web.Services.Description.Binding

Description

Gets or sets the value of a **System.Web.Services.Description.Binding** at the specified zero-based index. The zero-based index of the **System.Web.Services.Description.Binding** whose value is modified or returned.

Item

ToString

[C#] public Binding this[string name] {get;}

[C++] public: __property Binding* get_Item(String* name);

[VB] Public Default ReadOnly Property Item(ByVal name As String) As Binding

[JScript] returnValue = BindingCollectionObject.Item(name);

Description

Gets a **System.Web.Services.Description.Binding** specified by its **Name** property. A string value representing the name of the Binding returned.

List

Table

Add

[C#] public int Add(Binding binding);

[C++] public: int Add(Binding* binding);

[VB] Public Function Add(ByVal binding As Binding) As Integer

[JScript] public function Add(binding : Binding) : int;

Description

Adds the specified **System.Web.Services.Description.Binding** to the end of the **System.Web.Services.Description.BindingCollection** .

Return Value: Returns the zero-based index where *binding* has been added. The **System.Web.Services.Description.Binding** to be added to the collection.

Contains

[C#] public bool Contains(Binding binding);

[C++] public: bool Contains(Binding* binding);

[VB] Public Function Contains(ByVal binding As Binding) As Boolean

[JScript] public function Contains(binding : Binding) : Boolean;

Description

Gets a value indicating whether the specified **System.Web.Services.Description.Binding** is a member of the **System.Web.Services.Description.BindingCollection** .

Return Value: **true** if *binding* is a member of the

System.Web.Services.Description.BindingCollection ; otherwise, **false** . A **System.Web.Services.Description.Binding** object.

CopyTo

[C#] public void CopyTo(Binding[] array, int index);
[C++] public: void CopyTo(Binding* array[], int index);
[VB] Public Sub CopyTo(ByVal array() As Binding, ByVal index As Integer)
[JScript] public function CopyTo(array : Binding[], index : int);

Description

Copies the entire **System.Web.Services.Description.BindingCollection** to a compatible one-dimensional array of type **System.Web.Services.Description.Binding** , starting at the specified zero-based index of the target array. An array of type **System.Web.Services.Description.Binding** serving as the destination for the copy action. The zero-based index at which to start placing the copied collection.

GetKey

[C#] protected override string GetKey(object value);
[C++] protected: String* GetKey(Object* value);
[VB] Overrides Protected Function GetKey(ByVal value As Object) As String
[JScript] protected override function GetKey(value : Object) : String;

Description

Returns the name of the **System.Web.Services.Description.Binding** associated with the value passed by reference. An object for which to return the name of the key.

IndexOf

```
[C#] public int IndexOf(Binding binding);
[C++] public: int IndexOf(Binding* binding);
[VB] Public Function IndexOf(ByVal binding As Binding) As Integer
[JScript] public function IndexOf(binding : Binding) : int;
```

Description

Searches for the specified **System.Web.Services.Description.Binding** and returns the zero-based index of the first occurrence within the collection.

Return Value: Returns a 32-bit signed integer. A **System.Web.Services.Description.Binding** object.

Insert

```
[C#] public void Insert(int index, Binding binding);
[C++] public: void Insert(int index, Binding* binding);
[VB] Public Sub Insert(ByVal index As Integer, ByVal binding As Binding)
[JScript] public function Insert(index : int, binding : Binding);
```

Description

Adds the specified **System.Web.Services.Description.Binding** to the **System.Web.Services.Description.BindingCollection** at the specified index.

If the number of items in the collection already equals the collection's capacity, the capacity is doubled by automatically reallocating the internal array before the new element is inserted. The zero-based index at which to insert *binding*. The **System.Web.Services.Description.Binding** to be added to the collection.

Remove

[C#] public void Remove(Binding binding);

[C++] public: void Remove(Binding* binding);

[VB] Public Sub Remove(ByVal binding As Binding)

[JScript] public function Remove(binding : Binding);

Description

Removes the first occurrence of the specified **System.Web.Services.Description.Binding** from the **System.Web.Services.Description.BindingCollection** .

This method performs a linear search; therefore, the average execution time is proportional to **System.Web.Services.Description.BindingCollection.Count** . A **System.Web.Services.Description.Binding** object.

SetParent

[C#] protected override void SetParent(object value, object parent);

[C++] protected: void SetParent(Object* value, Object* parent);

[VB] Overrides Protected Sub SetParent(ByVal value As Object, ByVal parent As Object)

[JScript] protected override function SetParent(value : Object, parent : Object);

Description

Sets the parent **System.Web.Services.Description.ServiceDescription** of a member of **System.Web.Services.Description.BindingCollection** . An object, of type **System.Web.Services.Description.Binding** , within the collection. The object, of type **System.Web.Services.Description.ServiceDescription** , to set as the parent.

DocumentableItem class (System.Web.Services.Description)

ToString

Description

Represents the abstract base class from which several classes in the **System.Web.Services.Description** namespace are derived.

Several classes are derived from this class, including: **System.Web.Services.Description.BindingSystem.Web.Services.Description.ImportSystem.Web.Services.Description.MessageSystem.Web.Services.Description.MessagePartSystem.Web.Services.Description.OperationSystem.Web.Services.Description.OperationBindingSystem.Web.Services.Description.OperationMessageSystem.Web.Services.Description.PortSystem.Web.Services.Description.PortTypeSystem.Web.Services.Description.ServiceSystem.Web.Services.Description.Types** This base class contains only one property, the **Documentation** property. It represents the text documentation for a specific XML element.

DocumentableItem

Example Syntax:

ToString

[C#] protected DocumentableItem();

[C++] protected: DocumentableItem();

[VB] Protected Sub New()

[JScript] protected function DocumentableItem();

Documentation

ToString

[C#] public string Documentation {get; set;}

[C++] public: __property String* get_Documentation();public: __property void set_Documentation(String*);

[VB] Public Property Documentation As String

[JScript] public function get Documentation() : String;public function set Documentation(String);

Description

Gets or sets the documentation for the instance of the **System.Web.Services.Description.DocumentableItem** .

In a derived class, this property represents the text comments added to an element of the Web Service. The default implementation is **String.Empty** .

FaultBinding class (System.Web.Services.Description)

ToString

Description

Specifies the format for any error messages that might be output as a result of the operation. This class cannot be inherited.

FaultBinding

Example Syntax:

ToString

[C#] public FaultBinding();

[C++] public: FaultBinding();

[VB] Public Sub New()

[JScript] public function FaultBinding();

Documentation

Extensions

ToString

Description

Gets the collection of extensibility elements associated with the **System.Web.Services.Description.FaultBinding** .

Name

OperationBinding

FaultBindingCollection class (System.Web.Services.Description)

ToString

Description

Represents a collection of **System.Web.Services.Description.FaultBinding** instances. This class cannot be inherited.

Count

InnerList

Item

ToString

System.Web.Services.Description.FaultBinding

Description

Gets or sets the value of a **System.Web.Services.Description.FaultBinding** at the specified zero-based index. The zero-based index of the **System.Web.Services.Description.FaultBinding** whose value is modified or returned.

Item

ToString

[C#] public FaultBinding this[string name] {get;}

[C++] public: __property FaultBinding* get_Item(String* name);

[VB] Public Default ReadOnly Property Item(ByVal name As String) As FaultBinding

[JScript] returnValue = FaultBindingCollectionObject.Item(name);

Description

Gets a **System.Web.Services.Description.FaultBinding** specified by its **System.Web.Services.Description.FaultBinding.Name** property. The string value representing the name of the **System.Web.Services.Description.FaultBinding** returned.

List

Table

Add

[C#] public int Add(FaultBinding bindingOperationFault);

[C++] public: int Add(FaultBinding* bindingOperationFault);

[VB] Public Function Add(ByVal bindingOperationFault As FaultBinding) As Integer

[JScript] public function Add(bindingOperationFault : FaultBinding) : int;

Description

Adds the specified **System.Web.Services.Description.FaultBinding** to the end of the **System.Web.Services.Description.FaultBindingCollection** .

Return Value: Returns the index where *bindingOperationFault* has been added. The **System.Web.Services.Description.FaultBinding** to be added to the collection.

Contains

[C#] public bool Contains(FaultBinding bindingOperationFault);

[C++] public: bool Contains(FaultBinding* bindingOperationFault);

[VB] Public Function Contains(ByVal bindingOperationFault As FaultBinding) As Boolean

[JScript] public function Contains(bindingOperationFault : FaultBinding) : Boolean;

Description

Gets a value indicating whether the specified **System.Web.Services.Description.FaultBinding** is a member of the **FaultBindingCollection** .

Return Value: **true** if *bindingOperationFault* is a member of the **FaultBindingCollection** ; otherwise, **false** . A **System.Web.Services.Description.FaultBinding** object.

CopyTo

[C#] public void CopyTo(FaultBinding[] array, int index);

[C++] public: void CopyTo(FaultBinding* array[], int index);

[VB] Public Sub CopyTo(ByVal array() As FaultBinding, ByVal index As Integer)

[JScript] public function CopyTo(array : FaultBinding[], index : int);

Description

Copies the entire **FaultBindingCollection** to a compatible one-dimensional array of type **System.Web.Services.Description.FaultBinding** , starting at the specified zero-based index of the target array. An array of type **System.Web.Services.Description.FaultBinding** serving as the destination for the copy action. The zero-based index at which to start placing the copied collection.

GetKey

[C#] protected override string GetKey(object value);
[C++] protected: String* GetKey(Object* value);
[VB] Overrides Protected Function GetKey(ByVal value As Object) As String
[JScript] protected override function GetKey(value : Object) : String;

Description

Returns the name of the **System.Web.Services.Description.FaultBinding** associated with the value passed by reference. An object for which to return the name.

IndexOf

[C#] public int IndexOf(FaultBinding bindingOperationFault);
[C++] public: int IndexOf(FaultBinding* bindingOperationFault);
[VB] Public Function IndexOf(ByVal bindingOperationFault As FaultBinding) As Integer
[JScript] public function IndexOf(bindingOperationFault : FaultBinding) : int;

Description

Searches for the specified **System.Web.Services.Description.FaultBinding** and returns the zero-based index of the first occurrence within the collection.

Return Value: Returns a 32-bit signed integer. A **System.Web.Services.Description.FaultBinding** instance.

Insert

```
[C#] public void Insert(int index, FaultBinding bindingOperationFault);
[C++] public: void Insert(int index, FaultBinding* bindingOperationFault);
[VB] Public Sub Insert(ByVal index As Integer, ByVal bindingOperationFault As FaultBinding)
[JScript] public function Insert(index : int, bindingOperationFault : FaultBinding);
```

Description

Adds the specified **System.Web.Services.Description.FaultBinding** to the **FaultBindingCollection** at the specified zero-based index.

If the number of items in the collection already equals the collection's capacity, the capacity is doubled by automatically reallocating the internal array before the new element is inserted. The zero-based index at which to insert *bindingOperationFault.* The **System.Web.Services.Description.FaultBinding** to be added to the collection.

Remove

```
[C#] public void Remove(FaultBinding bindingOperationFault);
[C++] public: void Remove(FaultBinding* bindingOperationFault);
[VB] Public Sub Remove(ByVal bindingOperationFault As FaultBinding)
[JScript] public function Remove(bindingOperationFault : FaultBinding);
```

Description

Removes the first occurrence the specified **System.Web.Services.Description.FaultBinding** from the **FaultBindingCollection** .

This method performs a linear search; therefore, the average execution time is proportional to **System.Web.Services.Description.FaultBindingCollection.Count** . The **System.Web.Services.Description.FaultBinding** object to be removed from the collection.

SetParent

```
[C#] protected override void SetParent(object value, object parent);
[C++] protected: void SetParent(Object* value, Object* parent);
[VB] Overrides Protected Sub SetParent(ByVal value As Object, ByVal parent As Object)
[JScript] protected override function SetParent(value : Object, parent : Object);
```

Description

Sets the parent **System.Web.Services.Description.OperationBinding** of a member of the **FaultBindingCollection** instance. An object, of type **System.Web.Services.Description.FaultBinding**, within the **FaultBindingCollection**. The object, of type **System.Web.Services.Description.OperationBinding**, to set as the parent.

HttpAddressBinding class (System.Web.Services.Description)

ToString

Description

Represents an extensibility element added to a **System.Web.Services.Description.Port** within a Web Service. This class cannot be inherited.

This class, through its **System.Web.Services.Description.HttpAddressBinding.Location** property, specifies the base URI for the Web Service. For more information, see .

HttpAddressBinding

Example Syntax:

ToString

[C#] public HttpAddressBinding();

[C++] public: HttpAddressBinding();

[VB] Public Sub New()

[JScript] public function HttpAddressBinding();

Handled

Location

ToString

Description

Gets or sets a value representing the URL of the .asmx file containing the methods exposed by the Web Service.

Parent

Required

HttpBinding class (System.Web.Services.Description)

ToString

Description

Represents an extensibility element added to a **System.Web.Services.Description.Binding** within a Web Service. This class cannot be inherited.

This class specifies that information is to be passed by means of HTTP. For more information about specification of protocols for Web Services, see .

ToString

[C#] public const string Namespace;

[C++] public: const String* Namespace;

[VB] Public Const Namespace As String

[JScript] public var Namespace : String;

Description

Specifies the URI (http://schemas.xmlsoap.org/wsdl/http/) for the XML namespace of the **HttpBinding** class.

HttpBinding

Example Syntax:

ToString

[C#] public HttpBinding();

[C++] public: HttpBinding();

[VB] Public Sub New()

[JScript] public function HttpBinding();

Handled

Parent

Required

Verb

ToString

Description

Gets or sets a value indicating whether the Http request will be made using the "GET" or "POST" method.

HttpOperationBinding class (System.Web.Services.Description)

ToString

Description

Represents an extensibility element added to an **System.Web.Services.Description.OperationBinding** within a Web Service. This class cannot be inherited.

This class specifies how a Web Service passes information by means of HTTP. For more information, see .

HttpOperationBinding

Example Syntax:

ToString

[C#] public HttpOperationBinding();

[C++] public: HttpOperationBinding();

[VB] Public Sub New()

[JScript] public function HttpOperationBinding();

Handled

Location

ToString

Description

Gets or sets a value representing the relative URL, within the WSDL document, of the action supported by the **HttpOperationBinding** .

Parent

Required

HttpUrlEncodedBinding class (System.Web.Services.Description)

ToString

Description

Represents an extensibility element added to an **System.Web.Services.Description.InputBinding** within a Web Service. This class cannot be inherited.

This class specifies that the incoming data will be in the format "name=value&name=value", encoded from an **System.Web.UI.HtmlControls.HtmlForm** , whether the value of the HtmlForm's **System.Web.UI.HtmlControls.HtmlForm.Method** property is **POST** or **GET** .

HttpUrlEncodedBinding

Example Syntax:

ToString

[C#] public HttpUrlEncodedBinding();

[C++] public: HttpUrlEncodedBinding();

[VB] Public Sub New()

[JScript] public function HttpUrlEncodedBinding();

Handled

Parent

Required

HttpUrlReplacementBinding class (System.Web.Services.Description)

ToString

Description

Represents an extensibility element added to an **System.Web.Services.Description.InputBinding** within a Web Service. It specifies the format for data transmission through HTTP. This class cannot be inherited.

This class allows users to specify a custom format for data transmission, rather than limiting them to the standard format,"name=value&name=value", used in HTTP query strings. For example, a developer may decide to use /name,value/name,value or some other custom format instead.

HttpUrlReplacementBinding

Example Syntax:

ToString

[C#] public HttpUrlReplacementBinding();

[C++] public: HttpUrlReplacementBinding();

[VB] Public Sub New()

[JScript] public function HttpUrlReplacementBinding();

Handled

Parent

Required

Import class (System.Web.Services.Description)

ToString

Description

Associates an XML namespace with a document location. This class cannot be inherited.

Many of the tags in the WSDL schema can contain the tag. It allows the separation of different elements of the Web Service into different documents, which can then be imported as needed.

Import

Example Syntax:

ToString

```
[C#] public Import();
[C++] public: Import();
[VB] Public Sub New()
[JScript] public function Import();
```

Documentation

Location

ToString

Description

Gets or sets a reference to the XML **Location** attribute of the **System.Web.Services.Description.Import** instance.

Namespace

ToString

[C#] public string Namespace {get; set;}

[C++] public: __property String* get_Namespace();public: __property void set_Namespace(String*);

[VB] Public Property Namespace As String

[JScript] public function get Namespace() : String;public function set Namespace(String);

Description

Gets or sets a reference to the XML Namespace of the **System.Web.Services.Description.Import** instance.

ServiceDescription

ToString

[C#] public ServiceDescription ServiceDescription {get;}

[C++] public: __property ServiceDescription* get_ServiceDescription();

[VB] Public ReadOnly Property ServiceDescription As ServiceDescription

[JScript] public function get ServiceDescription() : ServiceDescription;

Description

Gets a reference to the **System.Web.Services.Description.ServiceDescription** of which the **Import** instance is a member.

ImportCollection class (System.Web.Services.Description)

ToString

Description

Provides a collection of **System.Web.Services.Description.Import** instances representing documents to be imported into the Web Service. This class cannot be inherited.

Count

InnerList

Item

ToString

Description

Gets or sets the value of an **System.Web.Services.Description.Import** at the specified zero-based index. The zero-based index of the **Import** whose value is modified or returned.

List

Table

Add

```
[C#] public int Add(Import import);
[C++] public: int Add(Import* import);
[VB] Public Function Add(ByVal import As Import) As Integer
[JScript] public function Add(import : Import) : int;
```

Description

Adds the specified **System.Web.Services.Description.Import** instance to the end of the **System.Web.Services.Description.ImportCollection** .

Return Value: Returns the index where *import* has been added. The **System.Web.Services.Description.Import** to be added to the collection.

Contains

```
[C#] public bool Contains(Import import);
[C++] public: bool Contains(Import* import);
[VB] Public Function Contains(ByVal import As Import) As Boolean
[JScript] public function Contains(import : Import) : Boolean;
```

Description

Gets a value indicating whether the specified **System.Web.Services.Description.Import** instance is a member of the **System.Web.Services.Description.ImportCollection** .

Return Value: **true** if *import* is a member of the **System.Web.Services.Description.ImportCollection** ; otherwise, **false** . An **System.Web.Services.Description.Import** object.

CopyTo

```
[C#] public void CopyTo(Import[] array, int index);
[C++] public: void CopyTo(Import* array[], int index);
[VB] Public Sub CopyTo(ByVal array() As Import, ByVal index As Integer)
```

```
[JScript] public function CopyTo(array : Import[], index : int);
```

Description

Copies the entire **ImportCollection** to a compatible one-dimensional array of type **System.Web.Services.Description.Import** , starting at the specified zero-based index of the target array. The destination array, of type **System.Web.Services.Description.Import**. The zero-based index at which to start placing the copied collection.

IndexOf

```
[C#] public int IndexOf(Import import);
[C++] public: int IndexOf(Import* import);
[VB] Public Function IndexOf(ByVal import As Import) As Integer
[JScript] public function IndexOf(import : Import) : int;
```

Description

Searches for the specified **System.Web.Services.Description.Import** and returns the zero-based index of the first occurrence within the collection. *Return Value:* Returns a 32-bit signed integer. An **System.Web.Services.Description.Import** object.

Insert

```
[C#] public void Insert(int index, Import import);
[C++] public: void Insert(int index, Import* import);
[VB] Public Sub Insert(ByVal index As Integer, ByVal import As Import)
```

[JScript] public function Insert(index : int, import : Import);

Description

Adds the specified **System.Web.Services.Description.Import** instance to the **ImportCollection** at the specified index.

If the number of items in the collection already equals the collection's capacity, the capacity is doubled by automatically reallocating the internal array before the new element is inserted. The zero-based index at which to insert *import*. The **System.Web.Services.Description.Import** to be added to the collection.

Remove

[C#] public void Remove(Import import);

[C++] public: void Remove(Import* import);

[VB] Public Sub Remove(ByVal import As Import)

[JScript] public function Remove(import : Import);

Description

Removes the first occurrence of the specified **System.Web.Services.Description.Import** from the **ImportCollection** .

This method performs a linear search; therefore, the average execution time is proportional to **System.Web.Services.Description.ImportCollection.Count** . An **System.Web.Services.Description.Import** object.

SetParent

[C#] protected override void SetParent(object value, object parent);

[C++] protected: void SetParent(Object* value, Object* parent);

[VB] Overrides Protected Sub SetParent(ByVal value As Object, ByVal parent As Object)

[JScript] protected override function SetParent(value : Object, parent : Object);

Description

Sets the parent **System.Web.Services.Description.ServiceDescription** of the specified **System.Web.Services.Description.Import** . An object, of type **System.Web.Services.Description.Import**, within the collection. The object, of type **System.Web.Services.Description.ServiceDescription**, to set as the parent.

InputBinding class (System.Web.Services.Description)

ToString

Description

Provides a set of specifications for data formats and protocols used by the Web Service for input messages. This class cannot be inherited.

InputBinding

Example Syntax:

ToString

[C#] public InputBinding();

[C++] public: InputBinding();

[VB] Public Sub New()

[JScript] public function InputBinding();

Documentation

Extensions

ToString

Description

Gets the **System.Web.Services.Description.ServiceDescriptionFormatExtensionCollection** associated with the **InputBinding** instance.

Name

OperationBinding

Message class (System.Web.Services.Description)

ToString

Description

Defines in the abstract the content, either document-oriented or procedure-oriented, of data passed by the Web Service. This class cannot be inherited.

Message

Example Syntax:

ToString

[C#] public Message();

[C++] public: Message();

[VB] Public Sub New()

[JScript] public function Message();

Documentation

Name

ToString

Description

Gets or sets the name of the **Message** instance.

Parts

ToString

[C#] public MessagePartCollection Parts {get;}

[C++] public: __property MessagePartCollection* get_Parts();

[VB] Public ReadOnly Property Parts As MessagePartCollection

[JScript] public function get Parts() : MessagePartCollection;

Description

Gets the collection of all the **System.Web.Services.Description.MessagePart** objects contained in the **Message** instance.

ServiceDescription

ToString

[C#] public ServiceDescription ServiceDescription {get;}

[C++] public: __property ServiceDescription* get_ServiceDescription();

[VB] Public ReadOnly Property ServiceDescription As ServiceDescription

[JScript] public function get ServiceDescription() : ServiceDescription;

Description

Gets the **System.Web.Services.Description.ServiceDescription** of which the **Message** instance is a member.

FindPartByName

[C#] public MessagePart FindPartByName(string partName);

[C++] public: MessagePart* FindPartByName(String* partName);

[VB] Public Function FindPartByName(ByVal partName As String) As MessagePart

[JScript] public function FindPartByName(partName : String) : MessagePart;

Description

Searches the **System.Web.Services.Description.MessagePartCollection** returned by the **System.Web.Services.Description.Message.Parts** property, and returns the named **System.Web.Services.Description.MessagePart** . The string naming the **System.Web.Services.Description.MessagePart** to be returned.

FindPartsByName

[C#] public MessagePart[] FindPartsByName(string[] partNames);

[C++] public: MessagePart* FindPartsByName(String* partNames __gc[]) [];

[VB] Public Function FindPartsByName(ByVal partNames() As String) As

MessagePart()

[JScript] public function FindPartsByName(partNames : String[]) : MessagePart[];

Description

Searches the **System.Web.Services.Description.MessagePartCollection** returned by the **System.Web.Services.Description.Message.Parts** property and returns an array of type **System.Web.Services.Description.MessagePart** containing the named instances.

Return Value: An array of type **System.Web.Services.Description.MessagePart** . An array of names of the **System.Web.Services.Description.MessagePart** instances to be returned.

MessageBinding class (System.Web.Services.Description)

ToString

Description

Describes how abstract content is mapped into a concrete format. This abstract class forms the base class for the following classes: **System.Web.Services.Description.FaultBindingSystem.Web.Services.Description.InputBindingSystem.Web.Services.Description.OutputBinding**

MessageBinding

Example Syntax:

ToString

[C#] protected MessageBinding();

[C++] protected: MessageBinding();

[VB] Protected Sub New()

[JScript] protected function MessageBinding();

Documentation

Extensions

ToString

Description

Gets the **System.Web.Services.Description.ServiceDescriptionFormatExtensionCollection** associated with the **MessageBinding** instance.

This property is intended to be overridden to provide the format extensions for Input, Output and Fault messages.

Name

ToString

[C#] public string Name {get; set;}

[C++] public: __property String* get_Name();public: __property void set_Name(String*);

[VB] Public Property Name As String

[JScript] public function get Name() : String;public function set Name(String);

Description

Gets or sets the name of the **System.Web.Services.Description.MessageBinding** .

OperationBinding

ToString

[C#] public OperationBinding OperationBinding {get;}

[C++] public: __property OperationBinding* get_OperationBinding();

[VB] Public ReadOnly Property OperationBinding As OperationBinding

[JScript] public function get OperationBinding() : OperationBinding;

Description

Gets the **System.Web.Services.Description.OperationBinding** of which the **MessageBinding** instance is a member.

MessageCollection class (System.Web.Services.Description)

ToString

Description

Represents a collection of **System.Web.Services.Description.Message** objects. This class cannot be inherited.

Count

InnerList

Item

ToString

System.Web.Services.Description.Message

Description

Gets or sets the value of a **System.Web.Services.Description.Message** at the specified zero-based index. The zero-based index of the **Message** whose value is modified or returned.

Item

ToString

```
[C#] public Message this[string name] {get;}
[C++] public: __property Message* get_Item(String* name);
[VB] Public Default ReadOnly Property Item(ByVal name As String) As Message
[JScript] returnValue = MessageCollectionObject.Item(name);
```

Description

Gets the **Message** by its **System.Web.Services.Description.Message.Name** property. The string value representing the name of the **Message** returned.

List

Table

Add

```
[C#] public int Add(Message message);
[C++] public: int Add(Message* message);
[VB] Public Function Add(ByVal message As Message) As Integer
```

[JScript] public function Add(message : Message) : int;

Description

Adds the specified **System.Web.Services.Description.Message** instance to the end of the **MessageCollection** .

Return Value: Returns the zero-based index where *message* has been added. The **System.Web.Services.Description.Message** to be added to the **MessageCollection** .

Contains

[C#] public bool Contains(Message message);

[C++] public: bool Contains(Message* message);

[VB] Public Function Contains(ByVal message As Message) As Boolean

[JScript] public function Contains(message : Message) : Boolean;

Description

Gets a value indicating whether the specified **System.Web.Services.Description.Message** instance is a member of the **MessageCollection** .

Return Value: **true** if *message* is a member of the **MessageCollection** ; otherwise, **false** . A **System.Web.Services.Description.Message** object.

CopyTo

[C#] public void CopyTo(Message[] array, int index);

[C++] public: void CopyTo(Message* array[], int index);

[VB] Public Sub CopyTo(ByVal array() As Message, ByVal index As Integer)

[JScript] public function CopyTo(array : Message[], index : int);

Description

Copies the entire **MessageCollection** to a compatible one-dimensional array of type **System.Web.Services.Description.Message** , starting at the specified zero-based index of the target array. The array, of type **System.Web.Services.Description.Message**, serving as the destination of the copy action. The zero-based index at which to start placing the copied collection.

GetKey

[C#] protected override string GetKey(object value);

[C++] protected: String* GetKey(Object* value);

[VB] Overrides Protected Function GetKey(ByVal value As Object) As String

[JScript] protected override function GetKey(value : Object) : String;

Description

Supplies the name of the **System.Web.Services.Description.Message** associated with the value passed by reference. A **System.Web.Services.Description.Message** instance for which to return the name.

IndexOf

[C#] public int IndexOf(Message message);

[C++] public: int IndexOf(Message* message);

[VB] Public Function IndexOf(ByVal message As Message) As Integer
[JScript] public function IndexOf(message : Message) : int;

Description

Searches for the specified **System.Web.Services.Description.Message** instance and returns the zero-based index of the first occurrence within the collection.

Return Value: Returns a 32-bit signed integer. A **System.Web.Services.Description.Message** object for which to search the **MessageCollection**.

Insert

[C#] public void Insert(int index, Message message);
[C++] public: void Insert(int index, Message* message);
[VB] Public Sub Insert(ByVal index As Integer, ByVal message As Message)
[JScript] public function Insert(index : int, message : Message);

Description

Adds the specified **System.Web.Services.Description.Message** instance to the **MessageCollection** at the specified index.

If the number of items in the collection already equals the collection's capacity, the capacity is doubled by automatically reallocating the internal array before the new element is inserted. The zero-based index at which to insert *message*. The **System.Web.Services.Description.Message** instance to add to the collection.

Remove

[C#] public void Remove(Message message);

[C++] public: void Remove(Message* message);

[VB] Public Sub Remove(ByVal message As Message)

[JScript] public function Remove(message : Message);

Description

Removes the first occurrence of the specified **System.Web.Services.Description.Message** instance from the **MessageCollection** .

This method performs a linear search; therefore, the average execution time is proportional to **System.Web.Services.Description.MessageCollection.Count** . A **System.Web.Services.Description.Message** instance for which to search the collection.

SetParent

[C#] protected override void SetParent(object value, object parent);

[C++] protected: void SetParent(Object* value, Object* parent);

[VB] Overrides Protected Sub SetParent(ByVal value As Object, ByVal parent As Object)

[JScript] protected override function SetParent(value : Object, parent : Object);

Description

Sets the parent **System.Web.Services.Description.ServiceDescription** of a member of the **MessageCollection** . An object, of type **System.Web.Services.Description.Message**, within the collection. The object, of type **System.Web.Services.Description.ServiceDescription**, to be set as the parent.

MessagePart class (System.Web.Services.Description)

ToString

Description

Allows messages to be broken up into their logical units, with specific abstract information for each part. This class cannot be inherited.

MessagePart

Example Syntax:

ToString

[C#] public MessagePart();

[C++] public: MessagePart();

[VB] Public Sub New()

[JScript] public function MessagePart();

Documentation

Element

ToString

Description

Gets or sets the XML element name of the **System.Web.Services.Description.MessagePart** instance.

This property corresponds to the attribute of the tag for which the MessagePart class serves as a wrapper.

Message

ToString

[C#] public Message Message {get;}

[C++] public: __property Message* get_Message();

[VB] Public ReadOnly Property Message As Message

[JScript] public function get Message() : Message;

Description

Gets the **System.Web.Services.Description.Message** of which the **MessagePart** instance is a member.

Name

ToString

[C#] public string Name {get; set;}

[C++] public: __property String* get_Name();public: __property void set_Name(String*);

[VB] Public Property Name As String

[JScript] public function get Name() : String;public function set Name(String);

Description

Gets or sets the name of the **System.Web.Services.Description.MessagePart** instance.

Returns an empty string ("") if the property value has not been assigned. This property corresponds to the attribute of the tag for which the **MessagePart** class serves as a wrapper.

Type

ToString

[C#] public XmlQualifiedName Type {get; set;}

[C++] public: __property XmlQualifiedName* get_Type();public: __property void set_Type(XmlQualifiedName*);

[VB] Public Property Type As XmlQualifiedName

[JScript] public function get Type() : XmlQualifiedName;public function set Type(XmlQualifiedName);

Description

Gets or sets the XML datatype of the **System.Web.Services.Description.MessagePart** instance.

This property corresponds to the attribute of the tag for which the **MessagePart** class serves as a wrapper. In general it refers to an XSD datatype, but can also be extended as long as the XML namespace used is different from that of WSDL.

MessagePartCollection class (System.Web.Services.Description)

ToString

Description

Represents a collection of **System.Web.Services.Description.MessagePart** objects. This class cannot be inherited.

Count

InnerList

Item

ToString

System.Web.Services.Description.MessagePart

Description

Gets or sets the value of a **System.Web.Services.Description.MessagePart** at the specified zero-based index. The zero-based index of the **MessagePart** whose value is modified or returned.

Item

ToString

[C#] public MessagePart this[string name] {get;}

[C++] public: __property MessagePart* get_Item(String* name);

[VB] Public Default ReadOnly Property Item(ByVal name As String) As

MessagePart

[JScript] returnValue = MessagePartCollectionObject.Item(name);

Description

Gets the **MessagePart** by its **Name** property. The string value representing the name of the **System.Web.Services.Description.MessagePart** returned.

List

Table

Add

[C#] public int Add(MessagePart messagePart);

[C++] public: int Add(MessagePart* messagePart);

[VB] Public Function Add(ByVal messagePart As MessagePart) As Integer

[JScript] public function Add(messagePart : MessagePart) : int;

Description

Adds the specified **System.Web.Services.Description.MessagePart** to the end of the **System.Web.Services.Description.MessagePartCollection** .

Return Value: Returns the index where *messagePart* has been added. The **System.Web.Services.Description.MessagePart** to be added to the collection.

Contains

[C#] public bool Contains(MessagePart messagePart);

[C++] public: bool Contains(MessagePart* messagePart);

[VB] Public Function Contains(ByVal messagePart As MessagePart) As Boolean

[JScript] public function Contains(messagePart : MessagePart) : Boolean;

Description

Gets a value indicating whether the specified **System.Web.Services.Description.MessagePart** is a member of the **MessagePartCollection** .

Return Value: **true** if *messagePart* is a member of the **MessagePartCollection** ; otherwise, **false** . A **System.Web.Services.Description.MessagePart** object.

CopyTo

[C#] public void CopyTo(MessagePart[] array, int index);

[C++] public: void CopyTo(MessagePart* array[], int index);

[VB] Public Sub CopyTo(ByVal array() As MessagePart, ByVal index As Integer)

[JScript] public function CopyTo(array : MessagePart[], index : int);

Description

Copies the entire **MessagePartCollection** to a compatible one-dimensional array of type **System.Web.Services.Description.MessagePart** , starting at the specified zero-based index of the target array. An array of type **System.Web.Services.Description.MessagePart** serving as the destination of the copy action. The zero-based index at which to start placing the copied collection.

GetKey

[C#] protected override string GetKey(object value);

[C++] protected: String* GetKey(Object* value);

[VB] Overrides Protected Function GetKey(ByVal value As Object) As String

[JScript] protected override function GetKey(value : Object) : String;

Description

Returns the name of the **System.Web.Services.Description.MessagePart** associated with the value passed by reference. An object for which to return the name.

IndexOf

[C#] public int IndexOf(MessagePart messagePart);

[C++] public: int IndexOf(MessagePart* messagePart);

[VB] Public Function IndexOf(ByVal messagePart As MessagePart) As Integer

[JScript] public function IndexOf(messagePart : MessagePart) : int;

Description

Searches for the specified **System.Web.Services.Description.MessagePart** and returns the zero-based index of the first occurrence within the collection.

Return Value: Returns a 32-bit signed integer. A **System.Web.Services.Description.MessagePart** object.

Insert

[C#] public void Insert(int index, MessagePart messagePart);

[C++] public: void Insert(int index, MessagePart* messagePart);

[VB] Public Sub Insert(ByVal index As Integer, ByVal messagePart As

MessagePart)

[JScript] public function Insert(index : int, messagePart : MessagePart);

Description

Adds the specified **System.Web.Services.Description.MessagePart** to the **MessagePartCollection** at the specified index.

If the number of items in the collection already equals the collection's capacity, the capacity is doubled by automatically reallocating the internal array before the new element is inserted. The zero-based index at which to insert *messagePart.* The **System.Web.Services.Description.MessagePart** to be added to the collection.

Remove

[C#] public void Remove(MessagePart messagePart);

[C++] public: void Remove(MessagePart* messagePart);

[VB] Public Sub Remove(ByVal messagePart As MessagePart)

[JScript] public function Remove(messagePart : MessagePart);

Description

Removes the first occurrence of the specified **System.Web.Services.Description.MessagePart** from the **MessagePartCollection** .

This method performs a linear search; therefore, the average execution time is proportional to

System.Web.Services.Description.MessagePartCollection.Count . A **System.Web.Services.Description.MessagePart** object.

SetParent

[C#] protected override void SetParent(object value, object parent);

[C++] protected: void SetParent(Object* value, Object* parent);

[VB] Overrides Protected Sub SetParent(ByVal value As Object, ByVal parent As Object)

[JScript] protected override function SetParent(value : Object, parent : Object);

Description

Sets the parent **System.Web.Services.Description.Message** of a member of **System.Web.Services.Description.MessagePartCollection** . An object, of type **System.Web.Services.Description.MessagePart**, within the collection. The object, of type **System.Web.Services.Description.Message**, to set as the parent.

MimeContentBinding class (System.Web.Services.Description)

ToString

Description

Represents an extensibility element added to an **System.Web.Services.Description.InputBinding** or an **System.Web.Services.Description.OutputBinding** within a Web Service, specifying the MIME format for the body of the HTTP transmission. This class cannot be inherited.

ToString

[C#] public const string Namespace;

[C++] public: const String* Namespace;

[VB] Public Const Namespace As String

[JScript] public var Namespace : String;

Description

Specifies the URI for the XML namespace of the **MimeContentBinding** class. This field is constant.

MimeContentBinding

Example Syntax:

ToString

[C#] public MimeContentBinding();

[C++] public: MimeContentBinding();

[VB] Public Sub New()

[JScript] public function MimeContentBinding();

Handled

Parent

Part

ToString

Description

Gets or sets the name of the **System.Web.Services.Description.MessagePart** to which the **MimeContentBinding** applies.

Required

Type

ToString

Description

Gets or sets a value indicating the format of the body of the HTTP transmission.

The WSDL specification defines bindings for several MIME types, including text/xml, multipart/related, and application/x-www-form-urlencoded, although any MIME type may be used. The wildcard character (*) may also be used. For example, the string "text/*" would represent all text types. If the value of this property is not set, the **MimeContentBinding** specifies all MIME types.

MimeMultipartRelatedBinding class (System.Web.Services.Description)

ToString

Description

Represents an extensibility element added to an **System.Web.Services.Description.InputBinding** or an **System.Web.Services.Description.OutputBinding** , specifying the individual

MIME formats for each **System.Web.Services.Description.MessagePart** within the HTTP transmission. This class cannot be inherited.

MimeMultipartRelatedBinding

Example Syntax:

ToString

[C#] public MimeMultipartRelatedBinding();

[C++] public: MimeMultipartRelatedBinding();

[VB] Public Sub New()

[JScript] public function MimeMultipartRelatedBinding();

Handled

Parent

Parts

ToString

Description

Gets the collection of extensibility elements added to the **MimeMultipartRelatedBinding** , which specify the MIME format for the corresponding **System.Web.Services.Description.MessagePart** instances.

Required

MimePart class (System.Web.Services.Description)

ToString

Description

Represents an extensibility element added to a **System.Web.Services.Description.MimeMultipartRelatedBinding** , specifying the concrete MIME type for the **System.Web.Services.Description.MessagePart** to which the **MimePart** applies. This class cannot be inherited.

MimePart

Example Syntax:

ToString

[C#] public MimePart();

[C++] public: MimePart();

[VB] Public Sub New()

[JScript] public function MimePart();

Extensions

ToString

[C#] public ServiceDescriptionFormatExtensionCollection Extensions {get;}

[C++] public: __property ServiceDescriptionFormatExtensionCollection* get_Extensions();

[VB] Public ReadOnly Property Extensions As ServiceDescriptionFormatExtensionCollection

[JScript] public function get Extensions() : ServiceDescriptionFormatExtensionCollection;

Description

Gets the collection of bindings for the **System.Web.Services.Description.MimeMultipartRelatedBinding** of which the **MimePart** is a member.

This collection must have at least one member. If it has more than one member, then the members are alternative MIME formats for a corresponding **System.Web.Services.Description.MessagePart** .

Handled

Parent

Required

MimePartCollection class (System.Web.Services.Description)

ToString

Description

Represents a collection of **System.Web.Services.Description.MimePart** objects. This class cannot be inherited.

MimePartCollection

Example Syntax:

ToString

[C#] public MimePartCollection();

[C++] public: MimePartCollection();

[VB] Public Sub New()

[JScript] public function MimePartCollection();

Count

InnerList

Item

ToString

Description

Gets or sets the value of a **System.Web.Services.Description.MimePart** at the specified zero-based index. The zero-based index of the **MimePart** whose value is modified or returned.

List

Add

[C#] public int Add(MimePart mimePart);

[C++] public: int Add(MimePart* mimePart);

[VB] Public Function Add(ByVal mimePart As MimePart) As Integer

[JScript] public function Add(mimePart : MimePart) : int;

Description

Adds the specified **System.Web.Services.Description.MimePart** instance to the end of the **MimePartCollection** .

Return Value: Returns the zero-based index where *mimePart* has been added. The **System.Web.Services.Description.MimePart** to be added to the collection.

Contains

[C#] public bool Contains(MimePart mimePart);

[C++] public: bool Contains(MimePart* mimePart);

[VB] Public Function Contains(ByVal mimePart As MimePart) As Boolean

[JScript] public function Contains(mimePart : MimePart) : Boolean;

Description

Gets a value indicating whether the specified **System.Web.Services.Description.MimePart** instance is a member of the **MimePartCollection** .

Return Value: **true** if *mimePart* is a member of the **MimePartCollection** ; otherwise, **false** . A **System.Web.Services.Description.MimePart** instance.

CopyTo

[C#] public void CopyTo(MimePart[] array, int index);

[C++] public: void CopyTo(MimePart* array[], int index);

[VB] Public Sub CopyTo(ByVal array() As MimePart, ByVal index As Integer)

[JScript] public function CopyTo(array : MimePart[], index : int);

Description

Copies the entire **MimePartCollection** to a compatible one-dimensional array of type **System.Web.Services.Description.MimePart** , starting at the specified zero-based index of the target array. An array of type

System.Web.Services.Description.MimePart serving as the destination of the copy action. The zero-based index at which to start placing the copied collection.

IndexOf

```
[C#] public int IndexOf(MimePart mimePart);
[C++] public: int IndexOf(MimePart* mimePart);
[VB] Public Function IndexOf(ByVal mimePart As MimePart) As Integer
[JScript] public function IndexOf(mimePart : MimePart) : int;
```

Description

Searches for the specified **System.Web.Services.Description.MimePart** instance and returns the zero-based index of the first occurrence within the collection.

Return Value: Returns a 32-bit signed integer. A **System.Web.Services.Description.MimePart** object for which to search the **MimePartCollection**.

Insert

```
[C#] public void Insert(int index, MimePart mimePart);
[C++] public: void Insert(int index, MimePart* mimePart);
[VB] Public Sub Insert(ByVal index As Integer, ByVal mimePart As MimePart)
[JScript] public function Insert(index : int, mimePart : MimePart);
```

Description

Adds the specified **System.Web.Services.Description.MimePart** instance to the **MimePartCollection** at the specified index.

If the number of items in the collection already equals the collection's capacity, the capacity is doubled by automatically reallocating the internal array before the new element is inserted. The zero-based index at which to insert *mimePart*. The **System.Web.Services.Description.MimePart** to add to the collection.

Remove

```
[C#] public void Remove(MimePart mimePart);
[C++] public: void Remove(MimePart* mimePart);
[VB] Public Sub Remove(ByVal mimePart As MimePart)
[JScript] public function Remove(mimePart : MimePart);
```

Description

Removes the first occurrence of the specified **System.Web.Services.Description.MimePart** from the **MimePartCollection** .

This method performs a linear search; therefore, the average execution time is proportional to **System.Web.Services.Description.MimePartCollection.Count** . A **System.Web.Services.Description.MimePart** instance for which to search the collection.

MimeTextBinding class (System.Web.Services.Description)

ToString

Description

Represents an extensibility element added to an **System.Web.Services.Description.InputBinding** , an **System.Web.Services.Description.OutputBinding** or a **System.Web.Services.Description.MimePart** , specifying the text patterns for which to search the HTTP transmission. This class cannot be inherited.

ToString

[C#] public const string Namespace;

[C++] public: const String* Namespace;

[VB] Public Const Namespace As String

[JScript] public var Namespace : String;

Description

Specifies the URI for the XML namespace of the **MimeTextBinding** class. This field is constant.

MimeTextBinding

Example Syntax:

ToString

[C#] public MimeTextBinding();

[C++] public: MimeTextBinding();

[VB] Public Sub New()

[JScript] public function MimeTextBinding();

Handled

Matches

ToString

Description

Gets the collection of MIME text patterns for which the HTTP transmission is searched.

Parent

Required

MimeTextMatch class (System.Web.Services.Description)

ToString

Description

Represents a text pattern for which the HTTP transmission is searched. This class cannot be inherited.

MimeTextMatch

Example Syntax:

ToString

[C#] public MimeTextMatch();

[C++] public: MimeTextMatch();

```
[VB] Public Sub New()
[JScript] public function MimeTextMatch();
```

Capture

ToString

```
[C#] public int Capture {get; set;}
[C++] public: __property int get_Capture();public: __property void set_Capture(int);
[VB] Public Property Capture As Integer
[JScript] public function get Capture() : int;public function set Capture(int);
```

Description

Returns a 32-bit signed integer. The default value is 0.

Group

ToString

```
[C#] public int Group {get; set;}
[C++] public: __property int get_Group();public: __property void set_Group(int);
[VB] Public Property Group As Integer
[JScript] public function get Group() : int;public function set Group(int);
```

Description

Gets or sets a value indicating the number of groups in which to place the results of the text search.

The value of this property should be less than or equal to the value of the **System.Web.Services.Description.MimeTextMatch.Repeats** property. It is recommended that developers use the default value.

IgnoreCase

ToString

[C#] public bool IgnoreCase {get; set;}

[C++] public: __property bool get_IgnoreCase();public: __property void set_IgnoreCase(bool);

[VB] Public Property IgnoreCase As Boolean

[JScript] public function get IgnoreCase() : Boolean;public function set IgnoreCase(Boolean);

Description

Gets or sets a value indicating whether the search should disregard the case of the text to be searched.

Matches

ToString

[C#] public MimeTextMatchCollection Matches {get;}

[C++] public: __property MimeTextMatchCollection* get_Matches();

[VB] Public ReadOnly Property Matches As MimeTextMatchCollection

[JScript] public function get Matches() : MimeTextMatchCollection;

Description

Name

ToString

[C#] public string Name {get; set;}

[C++] public: __property String* get_Name();public: __property void set_Name(String*);

[VB] Public Property Name As String

[JScript] public function get Name() : String;public function set Name(String);

Description

Gets or sets the name of the **MimeTextMatch** instance.

Pattern

ToString

[C#] public string Pattern {get; set;}

[C++] public: __property String* get_Pattern();public: __property void set_Pattern(String*);

[VB] Public Property Pattern As String

[JScript] public function get Pattern() : String;public function set Pattern(String);

Description

Gets or sets the text pattern for the search.

The value of this property can contain wildcard characters.

Repeats

ToString

```
[C#] public int Repeats {get; set;}
[C++] public: __property int get_Repeats();public: __property void
set_Repeats(int);
[VB] Public Property Repeats As Integer
[JScript] public function get Repeats() : int;public function set Repeats(int);
```

Description

Gets or sets a value indicating the number of times the search is to be performed.

In a case where there is more than one possible match, a property value of 1 will return only the first match found.

RepeatsString

ToString

```
[C#] public string RepeatsString {get; set;}
[C++] public: __property String* get_RepeatsString();public: __property void
set_RepeatsString(String*);
[VB] Public Property RepeatsString As String
[JScript] public function get RepeatsString() : String;public function set
RepeatsString(String);
```

Description

Gets or sets a value indicating the number of times the search is to be performed.

This property returns the same information as the **System.Web.Services.Description.MimeTextMatch.Repeats** property, but as a string rather than a 32-bit signed integer. A value of "*" corresponds to **System.Int32.MaxValue** .

Type

ToString

```
[C#] public string Type {get; set;}
[C++] public: __property String* get_Type();public: __property void
set_Type(String*);
[VB] Public Property Type As String
[JScript] public function get Type() : String;public function set Type(String);
```

Description

Gets or sets a value indicating the MIME format of the text to be searched.

This property returns an empty string ("") if its value has not been set.

MimeTextMatchCollection class (System.Web.Services.Description)

ToString

Description

Provides a collection of **System.Web.Services.Description.MimeTextMatch** instances. This class cannot be inherited.

MimeTextMatchCollection

Example Syntax:

ToString

```
[C#] public MimeTextMatchCollection();
[C++] public: MimeTextMatchCollection();
[VB] Public Sub New()
[JScript] public function MimeTextMatchCollection();
```

Count

InnerList

Item

ToString

Description

Gets or sets the value of a member of the **MimeTextMatchCollection** at the specified zero-based index. The zero-based index of the **MimeTextMatch** whose value is returned or modified.

List

Add

```
[C#] public int Add(MimeTextMatch match);
```

[C++] public: int Add(MimeTextMatch* match);

[VB] Public Function Add(ByVal match As MimeTextMatch) As Integer

[JScript] public function Add(match : MimeTextMatch) : int;

Description

Adds the specified **System.Web.Services.Description.MimeTextMatch** instance to the end of the **MimeTextMatchCollection** .

Return Value: Returns the zero-based index where *match* has been added. The **System.Web.Services.Description.MimeTextMatch** to be added to the collection.

Contains

[C#] public bool Contains(MimeTextMatch match);

[C++] public: bool Contains(MimeTextMatch* match);

[VB] Public Function Contains(ByVal match As MimeTextMatch) As Boolean

[JScript] public function Contains(match : MimeTextMatch) : Boolean;

Description

Gets a value indicating whether the specified **System.Web.Services.Description.MimeTextMatch** instance is a member of the **MimeTextMatchCollection** .

Return Value: **true** if *match* is a member of the **MimeTextMatchCollection** ; otherwise, **false** . A **System.Web.Services.Description.MimeTextMatch** instance.

CopyTo

[C#] public void CopyTo(MimeTextMatch[] array, int index);

[C++] public: void CopyTo(MimeTextMatch* array[], int index);

[VB] Public Sub CopyTo(ByVal array() As MimeTextMatch, ByVal index As Integer)

[JScript] public function CopyTo(array : MimeTextMatch[], index : int);

Description

Copies the entire **MimeTextMatchCollection** to a compatible one-dimensional array of type **System.Web.Services.Description.MimeTextMatch** , starting at the specified zero-based index of the target array. An array of type **System.Web.Services.Description.MimeTextMatch** serving as the destination of the copy action. The zero-based index at which to start placing the copied collection.

IndexOf

[C#] public int IndexOf(MimeTextMatch match);

[C++] public: int IndexOf(MimeTextMatch* match);

[VB] Public Function IndexOf(ByVal match As MimeTextMatch) As Integer

[JScript] public function IndexOf(match : MimeTextMatch) : int;

Description

Searches for the specified **System.Web.Services.Description.MimeTextMatch** instance and returns the zero-based index of the first occurrence within the collection.

Return Value: Returns a 32-bit signed integer. A **System.Web.Services.Description.MimeTextMatch** object for which to search the **MimeTextMatchCollection**.

Insert

[C#] public void Insert(int index, MimeTextMatch match);

[C++] public: void Insert(int index, MimeTextMatch* match);

[VB] Public Sub Insert(ByVal index As Integer, ByVal match As MimeTextMatch)

[JScript] public function Insert(index : int, match : MimeTextMatch);

Description

Adds the specified **System.Web.Services.Description.MimeTextMatch** instance to the **MimeTextMatchCollection** at the specified index.

If the number of items in the collection already equals the collection's capacity, the capacity is doubled by automatically reallocating the internal array before the new element is inserted. The zero-based index at which to insert *match*. The **System.Web.Services.Description.MimeTextMatch** to add to the collection.

Remove

[C#] public void Remove(MimeTextMatch match);

[C++] public: void Remove(MimeTextMatch* match);

[VB] Public Sub Remove(ByVal match As MimeTextMatch)

[JScript] public function Remove(match : MimeTextMatch);

Description

Removes the first occurrence of the specified **System.Web.Services.Description.MimeTextMatch** instance from the **MimeTextMatchCollection** .

This method performs a linear search; therefore, the average execution time is proportional to **System.Web.Services.Description.MimeTextMatchCollection.Count** . A **System.Web.Services.Description.MimeTextMatch** instance for which to search the collection.

MimeXmlBinding class (System.Web.Services.Description)

ToString

Description

Represents an extensibility element added to a **System.Web.Services.Description.MimePart** , an **System.Web.Services.Description.InputBinding** or an **System.Web.Services.Description.OutputBinding** . Specifies the schema for XML messages that are not SOAP compliant. This class cannot be inherited.

MimeXmlBinding

Example Syntax:

ToString

[C#] public MimeXmlBinding();

[C++] public: MimeXmlBinding();

[VB] Public Sub New()

[JScript] public function MimeXmlBinding();

Handled

Parent

Part

ToString

Description

Gets or sets the name of the **System.Web.Services.Description.MessagePart** to which the **MimeXmlBinding** applies.

Required

Operation class (System.Web.Services.Description)

ToString

Description

Provides an abstract definition of an action supported by the Web Service. This class cannot be inherited.

Exactly one instance of this class will be a member of the **System.Web.Services.Description.Operation.Messages** property of the parent **System.Web.Services.Description.Operation** .

Operation

Example Syntax:

ToString

```
[C#] public Operation();
[C++] public: Operation();
[VB] Public Sub New()
[JScript] public function Operation();
```

Documentation

Faults

ToString

Description

Gets the collection of faults, or error messages, defined by the **System.Web.Services.Description.Operation** instance.

Messages

ToString

```
[C#] public OperationMessageCollection Messages {get;}
[C++] public: __property OperationMessageCollection* get_Messages();
[VB] Public ReadOnly Property Messages As OperationMessageCollection
[JScript] public function get Messages() : OperationMessageCollection;
```

Description

Gets the collection of **System.Web.Services.Description.Message** instances defined by the **System.Web.Services.Description.Operation** instance.

Because an **Operation** instance is associated with exactly one **System.Web.Services.Description.OperationInput** and exactly one **System.Web.Services.Description.OperationOutput** , only one instance of each can be a member of this collection, and thus the collection can have a maximum of two members.

Name

ToString

[C#] public string Name {get; set;}

[C++] public: __property String* get_Name();public: __property void set_Name(String*);

[VB] Public Property Name As String

[JScript] public function get Name() : String;public function set Name(String);

Description

Gets or sets the name of the **System.Web.Services.Description.Operation** instance.

Returns an empty string ("") if the property value has not been set.

ParameterOrder

ToString

[C#] public string[] ParameterOrder {get; set;}

[C++] public: __property String* get_ParameterOrder();public: __property void set_ParameterOrder(String* __gc[]);

[VB] Public Property ParameterOrder As String ()

[JScript] public function get ParameterOrder() : String[];public function set ParameterOrder(String[]);

Description

Gets or sets an array of elements contained in the **System.Web.Services.Description.Operation.ParameterOrderString** .

Note that the elements of this array are identical to those of the **System.Web.Services.Description.Operation.ParameterOrderString** , but housed in an array rather than a space-delimited string.

ParameterOrderString

ToString

[C#] public string ParameterOrderString {get; set;}

[C++] public: __property String* get_ParameterOrderString();public: __property void set_ParameterOrderString(String*);

[VB] Public Property ParameterOrderString As String

[JScript] public function get ParameterOrderString() : String;public function set ParameterOrderString(String);

Description

An optional RPC-signature ordering specification for request/response or solicit/response operations. The value is a list of names of

System.Web.Services.Description.MessagePart instances separated by a single space.

The named **System.Web.Services.Description.MessagePart** instances must adhere to the following rules: The order of the named **System.Web.Services.Description.MessagePart** instances reflects the order of the parameters in the RPC signature.

PortType

ToString

```
[C#] public PortType PortType {get;}
[C++] public: __property PortType* get_PortType();
[VB] Public ReadOnly Property PortType As PortType
[JScript] public function get PortType() : PortType;
```

Description

Gets the **System.Web.Services.Description.PortType** of which the **Operation** is a member.

IsBoundBy

```
[C#] public bool IsBoundBy(OperationBinding operationBinding);
[C++] public: bool IsBoundBy(OperationBinding* operationBinding);
[VB] Public Function IsBoundBy(ByVal operationBinding As OperationBinding) As Boolean
[JScript] public function IsBoundBy(operationBinding : OperationBinding) : Boolean;
```

Description

Gets a value indicating whether the specified **System.Web.Services.Description.OperationBinding** is used in the **Operation** instance.

Return Value: **true** if the **Operation** instance uses *operationBinding* ; otherwise, **false** . An **System.Web.Services.Description.OperationBinding** instance to be checked to determine whether it is used by the **Operation**.

OperationBinding class (System.Web.Services.Description)

ToString

Description

Provides specifications for protocols and data formats for the messages used in the action supported by the Web Service. This class cannot be inherited.

This class contains all the **System.Web.Services.Description.Binding** elements required for the actions supported by the Web Service.

OperationBinding

Example Syntax:

ToString

[C#] public OperationBinding();

[C++] public: OperationBinding();

[VB] Public Sub New()

[JScript] public function OperationBinding();

Binding

ToString

[C#] public Binding Binding {get;}

[C++] public: __property Binding* get_Binding();

[VB] Public ReadOnly Property Binding As Binding

[JScript] public function get Binding() : Binding;

Description

The **System.Web.Services.Description.Binding** of which the **System.Web.Services.Description.OperationBinding** instance is a member.

Documentation

Extensions

ToString

Description

Gets the **System.Web.Services.Description.ServiceDescriptionFormatExtensionCollection** specific to the **System.Web.Services.Description.OperationBinding** instance.

Faults

ToString

[C#] public FaultBindingCollection Faults {get;}

[C++] public: __property FaultBindingCollection* get_Faults();
[VB] Public ReadOnly Property Faults As FaultBindingCollection
[JScript] public function get Faults() : FaultBindingCollection;

Description

Gets the **System.Web.Services.Description.FaultBindingCollection** associated with the **System.Web.Services.Description.OperationBinding** instance.

Input

ToString

[C#] public InputBinding Input {get; set;}
[C++] public: __property InputBinding* get_Input();public: __property void set_Input(InputBinding*);
[VB] Public Property Input As InputBinding
[JScript] public function get Input() : InputBinding;public function set Input(InputBinding);

Description

Gets or sets the **System.Web.Services.Description.InputBinding** associated with the **System.Web.Services.Description.OperationBinding** instance.

An **OperationBinding** will be associated with exactly one **System.Web.Services.Description.InputBinding** .

Name

ToString

[C#] public string Name {get; set;}

[C++] public: __property String* get_Name();public: __property void set_Name(String*);

[VB] Public Property Name As String

[JScript] public function get Name() : String;public function set Name(String);

Description

Gets or sets the name of the **OperationBinding** instance.

In WSDL format, this property is realized as the **name** attribute of the tag enclosed within the tags. Note that an empty string ("") is returned if this property value has not been set.

Output

ToString

[C#] public OutputBinding Output {get; set;}

[C++] public: __property OutputBinding* get_Output();public: __property void set_Output(OutputBinding*);

[VB] Public Property Output As OutputBinding

[JScript] public function get Output() : OutputBinding;public function set Output(OutputBinding);

Description

Gets or sets the **System.Web.Services.Description.OutputBinding** associated with the **System.Web.Services.Description.OperationBinding** instance.

An **OperationBinding** will be associated with exactly one **System.Web.Services.Description.OutputBinding** .

OperationBindingCollection class (System.Web.Services.Description)

ToString

Description

Represents a collection of **System.Web.Services.Description.OperationBinding** objects. This class cannot be inherited.

Count

InnerList

Item

ToString

Description

Gets or sets the value of a **System.Web.Services.Description.OperationBinding** at the specified zero-based index. The zero-based index of the **System.Web.Services.Description.OperationBinding** whose value is modified or returned.

Description

Gets a value indicating whether the specified **System.Web.Services.Description.OperationBinding** is a member of the **OperationBindingCollection** .

Return Value: **true** if *bindingOperation* is a member of the **OperationBindingCollection** ; otherwise, **false** . An **System.Web.Services.Description.OperationBinding** object.

CopyTo

[C#] public void CopyTo(OperationBinding[] array, *int index*);

[C++] public: void CopyTo(OperationBinding* array[], int index);

[VB] Public Sub CopyTo(ByVal array() As OperationBinding, ByVal index As Integer)

[JScript] public function CopyTo(array : OperationBinding[], index : int);

Description

Copies the entire **OperationBindingCollection** to a compatible one-dimensional array of type **System.Web.Services.Description.OperationBinding** , starting at the specified zero-based index of the target array. An array of type **System.Web.Services.Description.OperationBinding** that serves as the destination for the copy action. The zero-based index at which to start placing the copied collection into the target array.

IndexOf

Description

Gets a value indicating whether the specified **System.Web.Services.Description.OperationBinding** is a member of the **OperationBindingCollection** .

Return Value: **true** if *bindingOperation* is a member of the **OperationBindingCollection** ; otherwise, **false** . An **System.Web.Services.Description.OperationBinding** object.

CopyTo

[C#] public void CopyTo(OperationBinding[] array, int index);

[C++] public: void CopyTo(OperationBinding* array[], int index);

[VB] Public Sub CopyTo(ByVal array() As OperationBinding, ByVal index As Integer)

[JScript] public function CopyTo(array : OperationBinding[], index : int);

Description

Copies the entire **OperationBindingCollection** to a compatible one-dimensional array of type **System.Web.Services.Description.OperationBinding** , starting at the specified zero-based index of the target array. An array of type **System.Web.Services.Description.OperationBinding** that serves as the destination for the copy action. The zero-based index at which to start placing the copied collection into the target array.

IndexOf

[C#] public int IndexOf(OperationBinding bindingOperation);

[C++] public: int IndexOf(OperationBinding* bindingOperation);

[VB] Public Function IndexOf(ByVal bindingOperation As OperationBinding) As Integer

[JScript] public function IndexOf(bindingOperation : OperationBinding) : int;

Description

Searches for the specified **System.Web.Services.Description.OperationBinding** and returns the zero-based index of the first occurrence within the **OperationBindingCollection** .

Return Value: Returns a 32-bit signed integer. An **System.Web.Services.Description.OperationBinding** object.

Insert

[C#] public void Insert(int index, OperationBinding bindingOperation);

[C++] public: void Insert(int index, OperationBinding* bindingOperation);

[VB] Public Sub Insert(ByVal index As Integer, ByVal bindingOperation As OperationBinding)

[JScript] public function Insert(index : int, bindingOperation : OperationBinding);

Description

Adds the specified **System.Web.Services.Description.OperationBinding** instance to the **OperationBindingCollection** at the specified index.

If the number of items in the collection already equals the collection's capacity, the capacity is doubled by automatically reallocating the internal array before the new element is inserted. The zero-based index at which to insert *bindingOperation*. The **System.Web.Services.Description.OperationBinding** to be added to the collection.

Remove

[C#] public void Remove(OperationBinding bindingOperation);

[C++] public: void Remove(OperationBinding* bindingOperation);

[VB] Public Sub Remove(ByVal bindingOperation As OperationBinding)

[JScript] public function Remove(bindingOperation : OperationBinding);

Description

Removes the first occurrence of the specified **System.Web.Services.Description.OperationBinding** from the **OperationBindingCollection** .

This method performs a linear search; therefore, the average execution time is proportional to **System.Web.Services.Description.OperationBindingCollection.Count** . An **System.Web.Services.Description.OperationBinding** object.

SetParent

[C#] protected override void SetParent(object value, object parent);

[C++] protected: void SetParent(Object* value, Object* parent);

[VB] Overrides Protected Sub SetParent(ByVal value As Object, ByVal parent As

Object)

[JScript] protected override function SetParent(value : Object, parent : Object);

Description

Sets the parent **System.Web.Services.Description.Binding** of a member of the **OperationBindingCollection** . An object, of type **System.Web.Services.Description.OperationBinding**, within the collection. The object, of type **System.Web.Services.Description.Binding**, to be set as the parent.

OperationCollection class (System.Web.Services.Description)

ToString

Description

Represents a collection of **System.Web.Services.Description.Operation** objects. This class cannot be inherited.

Count

InnerList

Item

ToString

Description

Gets or sets the value of a **System.Web.Services.Description.Operation** at the specified zero-based index. The zero-based index of the

System.Web.Services.Description.Operation whose value is modified or returned.

List

Table

Add

[C#] public int Add(Operation operation);

[C++] public: int Add(Operation* operation);

[VB] Public Function Add(ByVal operation As Operation) As Integer

[JScript] public function Add(operation : Operation) : int;

Description

Adds the specified **System.Web.Services.Description.Operation** to the end of the **OperationCollection** .

Return Value: Returns the zero-based index where *operation* has been added. The **System.Web.Services.Description.Operation** to be added to the **OperationCollection**.

Contains

[C#] public bool Contains(Operation operation);

[C++] public: bool Contains(Operation* operation);

[VB] Public Function Contains(ByVal operation As Operation) As Boolean

[JScript] public function Contains(operation : Operation) : Boolean;

Description

Gets a value indicating whether the specified **System.Web.Services.Description.Operation** is a member of the **OperationCollection** .

Return Value: **true** if *operation* is a member of the **OperationCollection** ; otherwise, **false** . An **System.Web.Services.Description.Operation** object.

CopyTo

```
[C#] public void CopyTo(Operation[] array, int index);
[C++] public: void CopyTo(Operation* array[], int index);
[VB] Public Sub CopyTo(ByVal array() As Operation, ByVal index As Integer)
[JScript] public function CopyTo(array : Operation[], index : int);
```

Description

Copies the entire **OperationCollection** to a compatible one-dimensional array of type **System.Web.Services.Description.Operation** , starting at the specified index of the target array. An array of type **System.Web.Services.Description.Operation** serving as the destination for the copy action. The zero-based index at which to start placing the copied collection.

IndexOf

```
[C#] public int IndexOf(Operation operation);
[C++] public: int IndexOf(Operation* operation);
[VB] Public Function IndexOf(ByVal operation As Operation) As Integer
[JScript] public function IndexOf(operation : Operation) : int;
```

Description

Searches for the specified **System.Web.Services.Description.Operation** and returns the zero-based index of the first occurrence within the **OperationCollection** .

Return Value: Returns a 32-bit signed integer. An **System.Web.Services.Description.Operation** object.

Insert

[C#] public void Insert(int index, Operation operation);

[C++] public: void Insert(int index, Operation* operation);

[VB] Public Sub Insert(ByVal index As Integer, ByVal operation As Operation)

[JScript] public function Insert(index : int, operation : Operation);

Description

Adds the specified **System.Web.Services.Description.Operation** instance to the **OperationCollection** at the specified index.

If the number of items in the collection already equals the collection's capacity, the capacity is doubled by automatically reallocating the internal array before the new element is inserted. The zero-based index at which to insert *operation*. The **System.Web.Services.Description.Operation** to be added to the **OperationCollection**.

Remove

[C#] public void Remove(Operation operation);

[C++] public: void Remove(Operation* operation);

[VB] Public Sub Remove(ByVal operation As Operation)

[JScript] public function Remove(operation : Operation);

Description

Removes the first occurrence of the specified **System.Web.Services.Description.Operation** from the **OperationCollection** .

This method performs a linear search; therefore, the average execution time is proportional to **System.Web.Services.Description.OperationCollection.Count** . The **System.Web.Services.Description.Operation** object to be removed from the Collection.

SetParent

[C#] protected override void SetParent(object value, object parent);

[C++] protected: void SetParent(Object* value, Object* parent);

[VB] Overrides Protected Sub SetParent(ByVal value As Object, ByVal parent As Object)

[JScript] protected override function SetParent(value : Object, parent : Object);

Description

Sets the parent **System.Web.Services.Description.PortType** of a member of **OperationCollection** . An object, of type **System.Web.Services.Description.Operation**, within the **OperationCollection**.

The object, of type **System.Web.Services.Description.PortType**, to set as the parent.

OperationFault class (System.Web.Services.Description)

ToString

Description

Defines the specifications for error messages returned by the Web Service. This class cannot be inherited.

Instances of this class will be members of the **System.Web.Services.Description.Operation.Faults** property of the parent **Operation** .

OperationFault

Example Syntax:

ToString

[C#] public OperationFault();

[C++] public: OperationFault();

[VB] Public Sub New()

[JScript] public function OperationFault();

Documentation

Message

Name

Operation

OperationFaultCollection class (System.Web.Services.Description)

ToString

Description

Represents a collection of **System.Web.Services.Description.OperationFault** objects. This class cannot be inherited.

Count

InnerList

Item

ToString

System.Web.Services.Description.OperationFault

Description

Gets or sets the value of a **System.Web.Services.Description.OperationFault** at the specified zero-based index. The zero-based index of the **System.Web.Services.Description.OperationFault** whose value is modified or returned.

Item

ToString

[C#] public OperationFault this[string name] {get;}

[C++] public: __property OperationFault* get_Item(String* name);

[VB] Public Default ReadOnly Property Item(ByVal name As String) As

OperationFault

[JScript] returnValue = OperationFaultCollectionObject.Item(name);

Description

Gets an **System.Web.Services.Description.OperationFault** by its **System.Web.Services.Description.OperationFault.Name** property. The string value representing the name of the **System.Web.Services.Description.OperationFault** returned.

List

Table

Add

[C#] public int Add(OperationFault operationFaultMessage);

[C++] public: int Add(OperationFault* operationFaultMessage);

[VB] Public Function Add(ByVal operationFaultMessage As OperationFault) As Integer

[JScript] public function Add(operationFaultMessage : OperationFault) : int;

Description

Adds the specified **System.Web.Services.Description.OperationFault** to the end of the **OperationFaultCollection** .

Return Value: Returns the zero-based index where *operationFaultMessage* has been added. The **System.Web.Services.Description.OperationFault** to be added to the **OperationFaultCollection.**

Contains

```
[C#] public bool Contains(OperationFault operationFaultMessage);
[C++] public: bool Contains(OperationFault* operationFaultMessage);
[VB] Public Function Contains(ByVal operationFaultMessage As OperationFault)
As Boolean
[JScript] public function Contains(operationFaultMessage : OperationFault) :
Boolean;
```

Description

Gets a value indicating whether the specified **System.Web.Services.Description.OperationFault** is a member of the **OperationFaultCollection** .

Return Value: **true** if *operationFaultMessage* is a member of the **OperationFaultCollection** ; otherwise, **false** . An **System.Web.Services.Description.OperationFault** object.

CopyTo

```
[C#] public void CopyTo(OperationFault[] array, int index);
[C++] public: void CopyTo(OperationFault* array[], int index);
[VB] Public Sub CopyTo(ByVal array() As OperationFault, ByVal index As
Integer)
[JScript] public function CopyTo(array : OperationFault[], index : int);
```

Description

Copies the entire **System.Web.Services.Description.OperationFaultCollection** to a compatible one-dimensional array, starting at the specified zero-based index of the target array. An array of type **System.Web.Services.Description.OperationFault** serving as the destination of the copy action. The zero-based index at which to start placing the copied collection.

GetKey

[C#] protected override string GetKey(object value);

[C++] protected: String* GetKey(Object* value);

[VB] Overrides Protected Function GetKey(ByVal value As Object) As String

[JScript] protected override function GetKey(value : Object) : String;

Description

Returns the name of the **System.Web.Services.Description.OperationFault** associated with the value passed by reference. An object for which to return the name.

IndexOf

[C#] public int IndexOf(OperationFault operationFaultMessage);

[C++] public: int IndexOf(OperationFault* operationFaultMessage);

[VB] Public Function IndexOf(ByVal operationFaultMessage As OperationFault) As Integer

[JScript] public function IndexOf(operationFaultMessage : OperationFault) : int;

Description

Searches for the specified **System.Web.Services.Description.OperationFault** and returns the zero-based index of the first occurrence within the collection.

Return Value: Returns a 32-bit signed integer. An **System.Web.Services.Description.OperationFault** object.

Insert

[C#] public void Insert(int index, OperationFault operationFaultMessage);

[C++] public: void Insert(int index, OperationFault* operationFaultMessage);

[VB] Public Sub Insert(ByVal index As Integer, ByVal operationFaultMessage As OperationFault)

[JScript] public function Insert(index : int, operationFaultMessage : OperationFault);

Description

Adds the specified **System.Web.Services.Description.OperationFault** to the **OperationFaultCollection** at the specified zero-based index.

If the number of items in the collection already equals the collection's capacity, the capacity is doubled by automatically reallocating the internal array before the new element is inserted. The zero-based index at which to insert *operationFaultMessage*. The **System.Web.Services.Description.OperationFault** to be added to the Collection.

Remove

```
[C#] public void Remove(OperationFault operationFaultMessage);
[C++] public: void Remove(OperationFault* operationFaultMessage);
[VB] Public Sub Remove(ByVal operationFaultMessage As OperationFault)
[JScript] public function Remove(operationFaultMessage : OperationFault);
```

Description

Removes the first occurrence of the specified **System.Web.Services.Description.OperationFault** from the **OperationFaultCollection** .

This method performs a linear search; therefore, the average execution time is proportional to **System.Web.Services.Description.OperationFaultCollection.Count** . The **System.Web.Services.Description.OperationFault** object to be removed from the collection.

SetParent

```
[C#] protected override void SetParent(object value, object parent);
[C++] protected: void SetParent(Object* value, Object* parent);
[VB] Overrides Protected Sub SetParent(ByVal value As Object, ByVal parent As
Object)
[JScript] protected override function SetParent(value : Object, parent : Object);
```

Description

Sets the parent **System.Web.Services.Description.Operation** of a member of the **OperationFaultCollection** . An object, of class **System.Web.Services.Description.OperationFault** , within the collection. The object, of class **System.Web.Services.Description.Operation** , to be set as the parent.

OperationFlow enumeration (System.Web.Services.Description)

ToString

Description

Specifies the type of transmission an endpoint of the Web Service can support.

Although Request-Response or Solicit-Response are logically correlated in the WSDL document, the concrete correlation information will be specified by a binding. For example, the request and response messages may be exchanged as part of one or two actual HTTP transmissions.

ToString

[C#] public const OperationFlow None;

[C++] public: const OperationFlow None;

[VB] Public Const None As OperationFlow

[JScript] public var None : OperationFlow;

Description

Indicates that the endpoint of the Web Service receives no transmissions.

ToString

```
[C#] public const OperationFlow Notification;
[C++] public: const OperationFlow Notification;
[VB] Public Const Notification As OperationFlow
[JScript] public var Notification : OperationFlow;
```

Description

Indicates that an endpoint of the Web Service sends a message.

ToString

```
[C#] public const OperationFlow OneWay;
[C++] public: const OperationFlow OneWay;
[VB] Public Const OneWay As OperationFlow
[JScript] public var OneWay : OperationFlow;
```

Description

Indicates that the endpoint of the Web Service receives a message.

ToString

```
[C#] public const OperationFlow RequestResponse;
[C++] public: const OperationFlow RequestResponse;
[VB] Public Const RequestResponse As OperationFlow
[JScript] public var RequestResponse : OperationFlow;
```

Description

Indicates that an endpoint of the Web Service receives a message, then sends a correlated message.

ToString

[C#] public const OperationFlow SolicitResponse;

[C++] public: const OperationFlow SolicitResponse;

[VB] Public Const SolicitResponse As OperationFlow

[JScript] public var SolicitResponse : OperationFlow;

Description

Indicates that an endpoint of the Web Service sends a message, then receives a correlated message.

OperationInput class (System.Web.Services.Description)

ToString

Description

Defines the specifications for input messages received by the Web Service. This class cannot be inherited.

Exactly one instance of this class will be a member of the **System.Web.Services.Description.Operation.Messages** property of the parent **System.Web.Services.Description.Operation** .

OperationInput

Example Syntax:

ToString

[C#] public OperationInput();

[C++] public: OperationInput();

[VB] Public Sub New()

[JScript] public function OperationInput();

Documentation

Message

Name

Operation

OperationMessage class (System.Web.Services.Description)

ToString

Description

Serves as the base class for the following classes: **System.Web.Services.Description.OperationFaultSystem.Web.Services.Description.OperationInputSystem.Web.Services.Description.OperationOutput**

In its default implementation, an **OperationMessage** instance refers to any message type passed by the action of a service.

OperationMessage

Example Syntax:

ToString

[C#] protected OperationMessage();

[C++] protected: OperationMessage();

[VB] Protected Sub New()

[JScript] protected function OperationMessage();

Documentation

Message

ToString

Description

Gets or sets an abstract, typed definition of the data being communicated.

Name

ToString

[C#] public string Name {get; set;}

[C++] public: __property String* get_Name();public: __property void set_Name(String*);

[VB] Public Property Name As String

[JScript] public function get Name() : String;public function set Name(String);

Description

The name of the **System.Web.Services.Description.OperationMessage** instance.

Operation

ToString

```
[C#] public Operation Operation {get;}
[C++] public: __property Operation* get_Operation();
[VB] Public ReadOnly Property Operation As Operation
[JScript] public function get Operation() : Operation;
```

Description

Gets the **System.Web.Services.Description.Operation** of which the **System.Web.Services.Description.OperationMessage** instance is a member.

OperationMessageCollection class (System.Web.Services.Description)

ToString

Description

Represents a collection of **System.Web.Services.Description.OperationInput** and **System.Web.Services.Description.OperationOutput** messages related to a Web Service. This class cannot be inherited.

An instance of this class will be returned by the **System.Web.Services.Description.Operation.Messages** property of the parent **System.Web.Services.Description.Operation** . As such, it can have exactly two members, one an **System.Web.Services.Description.OperationInput** and the other an **System.Web.Services.Description.OperationOutput** .

Count

Flow

ToString

Description

Gets the type of transmission supported by the **OperationMessageCollection** .

InnerList

Input

ToString

Description

Gets the first occurrence of an **System.Web.Services.Description.OperationInput** instance within the collection.

Th

Item

ToString

[C#] public OperationMessage this[int index] {get; set;}

[C++] public: __property OperationMessage* get_Item(int index);public: __property void set_Item(int index, OperationMessage*);

[VB] Public Default Property Item(ByVal index As Integer) As OperationMessage

[JScript] returnValue =

OperationMessageCollectionObject.Item(index);OperationMessageCollectionObject.Item(index) = returnValue;

Description

Gets or sets the value of an **System.Web.Services.Description.OperationMessage** at the specified zero-based index. The zero-based index of the **System.Web.Services.Description.OperationMessage** whose value is modified or returned.

List

Output

ToString

Description

Gets the first occurrence of an **System.Web.Services.Description.OperationOutput** within the collection.

The search is performed in index order; thus the property returns only the **System.Web.Services.Description.OperationOutput** with the lowest-numbered index.

Table

Add

[C#] public int Add(OperationMessage operationMessage);

[C++] public: int Add(OperationMessage* operationMessage);

[VB] Public Function Add(ByVal operationMessage As OperationMessage) As Integer

[JScript] public function Add(operationMessage : OperationMessage) : int;

Description

Adds the specified **System.Web.Services.Description.OperationMessage** to the end of the **OperationMessageCollection** .

Return Value: Returns the zero-based index where *operationMessage* has been added. The **System.Web.Services.Description.OperationMessage** to be added to the collection.

Contains

[C#] public bool Contains(OperationMessage operationMessage);

[C++] public: bool Contains(OperationMessage* operationMessage);

[VB] Public Function Contains(ByVal operationMessage As OperationMessage) As Boolean

[JScript] public function Contains(operationMessage : OperationMessage) : Boolean;

Description

Gets a value indicating whether the specified **System.Web.Services.Description.OperationMessage** instance is a member of the **OperationMessageCollection** .

Return Value: **true** if *operationMessage* is a member of the

OperationMessageCollection ; otherwise, **false** . An **System.Web.Services.Description.OperationMessage** object.

CopyTo

[C#] public void CopyTo(OperationMessage[] array, int index);

[C++] public: void CopyTo(OperationMessage* array[], int index);

[VB] Public Sub CopyTo(ByVal array() As OperationMessage, ByVal index As Integer)

[JScript] public function CopyTo(array : OperationMessage[], index : int);

Description

Copies the entire **OperationMessageCollection** to a compatible one-dimensional array of type **System.Web.Services.Description.OperationMessage** , starting at the specified zero-based index of the target array. An array of type **System.Web.Services.Description.OperationMessage** serving as the destination of the copy action. The zero-based index at which to start placing the copied collection.

IndexOf

[C#] public int IndexOf(OperationMessage operationMessage);

[C++] public: int IndexOf(OperationMessage* operationMessage);

[VB] Public Function IndexOf(ByVal operationMessage As OperationMessage) As Integer

[JScript] public function IndexOf(operationMessage : OperationMessage) : int;

Description

Searches for the specified OperationMessage instance and returns the zero-based index of the first occurrence within the **OperationMessageCollection** .

Return Value: Returns a 32-bit signed integer. An **System.Web.Services.Description.OperationMessage** object.

Insert

[C#] public void Insert(int index, OperationMessage operationMessage);

[C++] public: void Insert(int index, OperationMessage* operationMessage);

[VB] Public Sub Insert(ByVal index As Integer, ByVal operationMessage As OperationMessage)

[JScript] public function Insert(index : int, operationMessage : OperationMessage);

Description

Adds the specified **System.Web.Services.Description.OperationMessage** to the **OperationMessageCollection** at the specified zero-based index.

If the number of items in the collection already equals the collection's capacity, the capacity is doubled by automatically reallocating the internal array before the new element is inserted. The zero-based index at which to insert *operationMessage*. The **System.Web.Services.Description.OperationMessage** to be added to the **OperationMessageCollection**.

OnInsert

[C#] protected override void OnInsert(int index, object value);

[C++] protected: void OnInsert(int index, Object* value);

[VB] Overrides Protected Sub OnInsert(ByVal index As Integer, ByVal value As Object)

[JScript] protected override function OnInsert(index : int, value : Object);

Description

Performs validation upon insertion of an **System.Web.Services.Description.OperationMessage** at the specified specified.

This method overrides the base method in order to limit the number of collection members to two (an **System.Web.Services.Description.OperationInput** and an **System.Web.Services.Description.OperationOutput**). The zero-based index at which to insert the specified **System.Web.Services.Description.OperationMessage**. The **System.Web.Services.Description.OperationMessage** to be added to the **OperationMessageCollection**.

OnSet

[C#] protected override void OnSet(int index, object oldValue, object newValue);

[C++] protected: void OnSet(int index, Object* oldValue, Object* newValue);

[VB] Overrides Protected Sub OnSet(ByVal index As Integer, ByVal oldValue As Object, ByVal newValue As Object)

[JScript] protected override function OnSet(index : int, oldValue : Object, newValue : Object);

Description

Performs validation upon replacement of the specified member of the OperationMessageCollection with a new OperationMessage at the specified zero-based index.

This method overrides the base method in order to assure that the value replacing the existing value is of the same class as that existing value. Thus an **System.Web.Services.Description.OperationInput** must be replaced by an **OperationInput** , and an **System.Web.Services.Description.OperationOutput** must be replaced by an **OperationOutput** . The zero-based index at which to change *oldValue* to *newValue.* The object value to be replaced by *newValue.* The object value with which to replace *oldValue.*

OnValidate

[C#] protected override void OnValidate(object value);
[C++] protected: void OnValidate(Object* value);
[VB] Overrides Protected Sub OnValidate(ByVal value As Object)
[JScript] protected override function OnValidate(value : Object);

Description

Performs a check on the type of the specified object when validating it.

This method overrides the base method in order to assure that the instance represented by the *value* parameter is either of type **System.Web.Services.Description.OperationInput** or

System.Web.Services.Description.OperationOutput . The object to be validated.

Remove

[C#] public void Remove(OperationMessage operationMessage);

[C++] public: void Remove(OperationMessage* operationMessage);

[VB] Public Sub Remove(ByVal operationMessage As OperationMessage)

[JScript] public function Remove(operationMessage : OperationMessage);

Description

Removes the first occurrence of the specified **System.Web.Services.Description.OperationMessage** from the **OperationMessageCollection** .

This method performs a linear search; therefore, the average execution time is proportional to **Count** . An **System.Web.Services.Description.OperationMessage** object.

SetParent

[C#] protected override void SetParent(object value, object parent);

[C++] protected: void SetParent(Object* value, Object* parent);

[VB] Overrides Protected Sub SetParent(ByVal value As Object, ByVal parent As Object)

[JScript] protected override function SetParent(value : Object, parent : Object);

Description

Sets the parent **System.Web.Services.Description.Operation** of the **OperationMessageCollection** . An object, of type **System.Web.Services.Description.OperationMessage** or a derived type, within the collection. The object, of type **System.Web.Services.Description.Operation** , to be set as the parent.

OperationOutput class (System.Web.Services.Description)

ToString

Description

Defines the specifications for output messages returned by the Web Service. This class cannot be inherited.

Exactly one instance of this class will be a member of the **System.Web.Services.Description.Operation.Messages** property of the parent **System.Web.Services.Description.Operation** .

OperationOutput

Example Syntax:

ToString

[C#] public OperationOutput();

[C++] public: OperationOutput();

[VB] Public Sub New()

[JScript] public function OperationOutput();

Documentation

Message

Name

Operation

OutputBinding class (System.Web.Services.Description)

ToString

Description

Provides a set of specifications for data formats and protocols used by the Web Service for output messages. This class cannot be inherited.

OutputBinding

Example Syntax:

ToString

[C#] public OutputBinding();

[C++] public: OutputBinding();

[VB] Public Sub New()

[JScript] public function OutputBinding();

Documentation

Extensions

ToString

Description

Gets the **System.Web.Services.Description.ServiceDescriptionFormatExtensionCollection** associated with the **OutputBinding** instance.

Name

OperationBinding

Port class (System.Web.Services.Description)

ToString

Description

Defines an individual endpoint contained in the Web Service. This class cannot be inherited.

This class specifies a single address (URI) for a binding, which defines message format and protocol details for operations and messages for a given **System.Web.Services.Description.PortType** . The **System.Web.Services.Description.Port.Binding** property gets or sets those values for the **Port** instance.

Port

Example Syntax:

ToString

[C#] public Port();

[C++] public: Port();

[VB] Public Sub New()

[JScript] public function Port();

Binding

ToString

[C#] public XmlQualifiedName Binding {get; set;}

[C++] public: __property XmlQualifiedName* get_Binding();public: __property void set_Binding(XmlQualifiedName*);

[VB] Public Property Binding As XmlQualifiedName

[JScript] public function get Binding() : XmlQualifiedName;public function set Binding(XmlQualifiedName);

Description

Gets or sets the value of the XML binding attribute of the **Port** .

A binding defines message format and protocol details for operations and messages for a given **System.Web.Services.Description.PortType** . This property gets or sets those values for a specific **Port** .

Documentation

Extensions

ToString

Description

Gets the collection of extensibility elements contained in the **Port** .

Name

ToString

[C#] public string Name {get; set;}

[C++] public: __property String* get_Name();public: __property void set_Name(String*);

[VB] Public Property Name As String

[JScript] public function get Name() : String;public function set Name(String);

Description

Gets or sets the Name of the **Port** .

Service

ToString

[C#] public Service Service {get;}

[C++] public: __property Service* get_Service();

[VB] Public ReadOnly Property Service As Service

[JScript] public function get Service() : Service;

Description

Gets the **System.Web.Services.Description.Service** of which the **Port** instance is a member.

PortCollection class (System.Web.Services.Description)

ToString

Description

Represents the collection of all **System.Web.Services.Description.Port** objects contained within a **System.Web.Services.Description.Service** . This class cannot be inherited.

Count

InnerList

Item

ToString

System.Web.Services.Description.Port

Description

Gets or sets the value of a **System.Web.Services.Description.Port** at the specified zero-based index. The zero-based index of the **System.Web.Services.Description.Port** whose value is modified or returned.

Item

ToString

```
[C#] public Port this[string name] {get;}
[C++] public: __property Port* get_Item(String* name);
[VB] Public Default ReadOnly Property Item(ByVal name As String) As Port
[JScript] returnValue = PortCollectionObject.Item(name);
```

Description

Gets the specified **System.Web.Services.Description.Port** by its **System.Web.Services.Description.Port.Name** property. A string value representing the name of the **System.Web.Services.Description.Port** returned.

List

Table

Add

```
[C#] public int Add(Port port);
[C++] public: int Add(Port* port);
[VB] Public Function Add(ByVal port As Port) As Integer
[JScript] public function Add(port : Port) : int;
```

Description

Adds the specified **System.Web.Services.Description.Port** instance to the end of the **PortCollection** .

Return Value: Returns the index where the specified **System.Web.Services.Description.Port** instance has been added. The **System.Web.Services.Description.Port** to be added to the **PortCollection**.

Contains

```
[C#] public bool Contains(Port port);
[C++] public: bool Contains(Port* port);
[VB] Public Function Contains(ByVal port As Port) As Boolean
[JScript] public function Contains(port : Port) : Boolean;
```

Description

Gets a value indicating whether the specified **System.Web.Services.Description.Port** instance is a member of the

PortCollection .

Return Value: **true** if the specified **System.Web.Services.Description.Port** is a member of the **PortCollection** ; otherwise, **false** . A **System.Web.Services.Description.Port** object.

CopyTo

[C#] public void CopyTo(Port[] array, int index);

[C++] public: void CopyTo(Port* array[], int index);

[VB] Public Sub CopyTo(ByVal array() As Port, ByVal index As Integer)

[JScript] public function CopyTo(array : Port[], index : int);

Description

Copies the entire **System.Web.Services.Description.PortCollection** to a one-dimensional array of type **System.Web.Services.Description.Port** , starting at the specified zero-based index of the target array. An array of type **System.Web.Services.Description.Port** serving as the destination of the copy action. The zero-based index at which to start placing the copied **PortCollection** .

GetKey

[C#] protected override string GetKey(object value);

[C++] protected: String* GetKey(Object* value);

[VB] Overrides Protected Function GetKey(ByVal value As Object) As String

[JScript] protected override function GetKey(value : Object) : String;

Description

Returns the name of the **System.Web.Services.Description.Port** instance associated with the value passed by reference. A **System.Web.Services.Description.Port** instance for which to return the name.

IndexOf

```
[C#] public int IndexOf(Port port);
[C++] public: int IndexOf(Port* port);
[VB] Public Function IndexOf(ByVal port As Port) As Integer
[JScript] public function IndexOf(port : Port) : int;
```

Description

Searches for the specified **System.Web.Services.Description.Port** instance and returns the zero-based index of the first occurrence within the **PortCollection** .

Return Value: Returns a 32-bit signed integer. A **System.Web.Services.Description.Port** object.

Insert

```
[C#] public void Insert(int index, Port port);
[C++] public: void Insert(int index, Port* port);
[VB] Public Sub Insert(ByVal index As Integer, ByVal port As Port)
[JScript] public function Insert(index : int, port : Port);
```

Description

Adds the specified **System.Web.Services.Description.Port** instance to the **PortCollection** at the specified index.

If the number of items in the collection already equals the collection's capacity, the capacity is doubled by automatically reallocating the internal array before the new element is inserted. The zero-based index at which to insert *port.* The **System.Web.Services.Description.Port** to be added to the collection.

Remove

```
[C#] public void Remove(Port port);
[C++] public: void Remove(Port* port);
[VB] Public Sub Remove(ByVal port As Port)
[JScript] public function Remove(port : Port);
```

Description

Removes the first occurrence of the specified **System.Web.Services.Description.Port** from the **PortCollection** .

This method performs a linear search; therefore, the average execution time is proportional to **Count** . A **System.Web.Services.Description.Port** object.

SetParent

```
[C#] protected override void SetParent(object value, object parent);
[C++] protected: void SetParent(Object* value, Object* parent);
[VB] Overrides Protected Sub SetParent(ByVal value As Object, ByVal parent As Object)
[JScript] protected override function SetParent(value : Object, parent : Object);
```

Description

Sets the parent **System.Web.Services.Description.Service** of a member of the **PortCollection** . An object, of type **System.Web.Services.Description.Port,** within the collection. The object, of type **System.Web.Services.Description.Service** , to set as the parent.

PortType class (System.Web.Services.Description)

ToString

Description

Represents a named set of abstract operations and the corresponding abstract messages. This class cannot be inherited.

PortType

Example Syntax:

ToString

[C#] public PortType();

[C++] public: PortType();

[VB] Public Sub New()

[JScript] public function PortType();

Documentation

Name

ToString

Description

Gets or sets the name of the **System.Web.Services.Description.PortType** instance.

Returns an empty string ("") if the property value has not been assigned.

Operations

ToString

[C#] public OperationCollection Operations {get;}

[C++] public: __property OperationCollection* get_Operations();

[VB] Public ReadOnly Property Operations As OperationCollection

[JScript] public function get Operations() : OperationCollection;

Description

Gets the collection of **System.Web.Services.Description.Operation** instances defined by the **System.Web.Services.Description.PortType** instance.

ServiceDescription

ToString

[C#] public ServiceDescription ServiceDescription {get;}

[C++] public: __property ServiceDescription* get_ServiceDescription();

[VB] Public ReadOnly Property ServiceDescription As ServiceDescription

[JScript] public function get ServiceDescription() : ServiceDescription;

Description

Gets the **System.Web.Services.Description.ServiceDescription** of which the **System.Web.Services.Description.PortType** instance is a member.

PortTypeCollection class (System.Web.Services.Description)

ToString

Description

Represents a collection of **System.Web.Services.Description.PortType** objects, that is, a collection of sets of operations supported by the Web Service. This class cannot be inherited.

Count

InnerList

Item

ToString

System.Web.Services.Description.PortType

Description

Gets or sets the value of a **System.Web.Services.Description.PortType** at the specified zero-based index. The zero-based index of the **System.Web.Services.Description.PortType** whose value is modified or returned.

Item

ToString

```
[C#] public PortType this[string name] {get;}
[C++] public: __property PortType* get_Item(String* name);
[VB] Public Default ReadOnly Property Item(ByVal name As String) As
PortType
[JScript] returnValue = PortTypeCollectionObject.Item(name);
```

Description

Gets the specified **System.Web.Services.Description.PortType** by its **System.Web.Services.Description.PortType.Name** property.

This method performs a linear search; therefore, the average execution time is proportional to **System.Web.Services.Description.PortTypeCollection.Count** . The string value representing the name of the **System.Web.Services.Description.PortType** returned.

List

Table

Add

```
[C#] public int Add(PortType portType);
[C++] public: int Add(PortType* portType);
[VB] Public Function Add(ByVal portType As PortType) As Integer
[JScript] public function Add(portType : PortType) : int;
```

Description

Adds the specified **System.Web.Services.Description.PortType** to the end of the **PortTypeCollection** .

Return Value: Returns the index where the **System.Web.Services.Description.PortType** instance specified by the *portType* parameter has been added. The **System.Web.Services.Description.PortType** to be added to the **PortTypeCollection**.

Contains

```
[C#] public bool Contains(PortType portType);
[C++] public: bool Contains(PortType* portType);
[VB] Public Function Contains(ByVal portType As PortType) As Boolean
[JScript] public function Contains(portType : PortType) : Boolean;
```

Description

Gets a value indicating whether the specified **System.Web.Services.Description.PortType** instance is a member of the **PortTypeCollection** .

Return Value: **true** if the specified **System.Web.Services.Description.PortType** instance is a member of the **PortTypeCollection** ; otherwise, **false** . A **System.Web.Services.Description.PortType** object.

CopyTo

```
[C#] public void CopyTo(PortType[] array, int index);
[C++] public: void CopyTo(PortType* array[], int index);
[VB] Public Sub CopyTo(ByVal array() As PortType, ByVal index As Integer)
```

[JScript] public function CopyTo(array : PortType[], index : int);

Description

Copies the entire **System.Web.Services.Description.PortTypeCollection** to a one-dimensional array of type PortType, starting at the specified zero-based index of the target array. An array of type **System.Web.Services.Description.PortType** serving as the destination of the copy action. The zero-based index at which to start placing the copied **PortTypeCollection**.

GetKey

[C#] protected override string GetKey(object value);

[C++] protected: String* GetKey(Object* value);

[VB] Overrides Protected Function GetKey(ByVal value As Object) As String

[JScript] protected override function GetKey(value : Object) : String;

Description

Returns the name of the **System.Web.Services.Description.PortType** associated with the value passed by reference. An object for which to return the name.

IndexOf

[C#] public int IndexOf(PortType portType);

[C++] public: int IndexOf(PortType* portType);

[VB] Public Function IndexOf(ByVal portType As PortType) As Integer

```
[JScript] public function IndexOf(portType : PortType) : int;
```

Description

Searches for the specified **System.Web.Services.Description.PortType** instance and returns the zero-based index of the first occurrence within the **PortTypeCollection** .

Return Value: Returns a 32-bit signed integer. A **System.Web.Services.Description.PortType** object.

Insert

```
[C#] public void Insert(int index, PortType portType);
[C++] public: void Insert(int index, PortType* portType);
[VB] Public Sub Insert(ByVal index As Integer, ByVal portType As PortType)
[JScript] public function Insert(index : int, portType : PortType);
```

Description

Adds the specified **System.Web.Services.Description.PortType** instance to the **PortTypeCollection** at the specified zero-based index.

If the number of items in the collection already equals the collection's capacity, the capacity is doubled by automatically reallocating the internal array before the new element is inserted. The zero-based index at which to insert the specified **System.Web.Services.Description.PortType** instance. The **System.Web.Services.Description.PortType** to be added to the **PortTypeCollection.**

Remove

[C#] public void Remove(PortType portType);

[C++] public: void Remove(PortType* portType);

[VB] Public Sub Remove(ByVal portType As PortType)

[JScript] public function Remove(portType : PortType);

Description

Removes the first occurrence of the specified **System.Web.Services.Description.PortType** from the **PortTypeCollection** .

This method performs a linear search; therefore, the average execution time is proportional to **Count** . A **System.Web.Services.Description.PortType** object.

SetParent

[C#] protected override void SetParent(object value, object parent);

[C++] protected: void SetParent(Object* value, Object* parent);

[VB] Overrides Protected Sub SetParent(ByVal value As Object, ByVal parent As Object)

[JScript] protected override function SetParent(value : Object, parent : Object);

Description

Sets the parent **System.Web.Services.Description.ServiceDescription** of a member of **System.Web.Services.Description.PortTypeCollection** . An object, of type **System.Web.Services.Description.PortType**, within the **PortTypeCollection** . The object, of type **System.Web.Services.Description.ServiceDescription** , to set as the parent.

ProtocolImporter class (System.Web.Services.Description)

ToString

Description

ProtocolImporter

Example Syntax:

ToString

[C#] protected ProtocolImporter();

[C++] protected: ProtocolImporter();

[VB] Protected Sub New()

[JScript] protected function ProtocolImporter();

AbstractSchemas

ToString

[C#] public XmlSchemas AbstractSchemas {get;}

[C++] public: __property XmlSchemas* get_AbstractSchemas();

[VB] Public ReadOnly Property AbstractSchemas As XmlSchemas

[JScript] public function get AbstractSchemas() : XmlSchemas;

Description

Binding

ToString

[C#] public Binding Binding {get;}

[C++] public: __property Binding* get_Binding();

[VB] Public ReadOnly Property Binding As Binding

[JScript] public function get Binding() : Binding;

Description

ClassName

ToString

[C#] public string ClassName {get;}

[C++] public: __property String* get_ClassName();

[VB] Public ReadOnly Property ClassName As String

[JScript] public function get ClassName() : String;

Description

ClassNames

ToString

[C#] public CodeIdentifiers ClassNames {get;}

[C++] public: __property CodeIdentifiers* get_ClassNames();

[VB] Public ReadOnly Property ClassNames As CodeIdentifiers

[JScript] public function get ClassNames() : CodeIdentifiers;

Description

CodeNamespace

ToString

[C#] public CodeNamespace CodeNamespace {get;}

[C++] public: __property CodeNamespace* get_CodeNamespace();

[VB] Public ReadOnly Property CodeNamespace As CodeNamespace

[JScript] public function get CodeNamespace() : CodeNamespace;

Description

CodeTypeDeclaration

ToString

[C#] public CodeTypeDeclaration CodeTypeDeclaration {get;}

[C++] public: __property CodeTypeDeclaration* get_CodeTypeDeclaration();

[VB] Public ReadOnly Property CodeTypeDeclaration As CodeTypeDeclaration

[JScript] public function get CodeTypeDeclaration() : CodeTypeDeclaration;

Description

ConcreteSchemas

ToString

[C#] public XmlSchemas ConcreteSchemas {get;}

[C++] public: __property XmlSchemas* get_ConcreteSchemas();

[VB] Public ReadOnly Property ConcreteSchemas As XmlSchemas

[JScript] public function get ConcreteSchemas() : XmlSchemas;

Description

InputMessage

ToString

[C#] public Message InputMessage {get;}

[C++] public: __property Message* get_InputMessage();

[VB] Public ReadOnly Property InputMessage As Message

[JScript] public function get InputMessage() : Message;

Description

MethodName

ToString

[C#] public string MethodName {get;}

[C++] public: __property String* get_MethodName();

[VB] Public ReadOnly Property MethodName As String

[JScript] public function get MethodName() : String;

Description

Operation

ToString

[C#] public Operation Operation {get;}

[C++] public: __property Operation* get_Operation();

[VB] Public ReadOnly Property Operation As Operation

[JScript] public function get Operation() : Operation;

Description

OperationBinding

ToString

[C#] public OperationBinding OperationBinding {get;}

[C++] public: __property OperationBinding* get_OperationBinding();

[VB] Public ReadOnly Property OperationBinding As OperationBinding

[JScript] public function get OperationBinding() : OperationBinding;

Description

OutputMessage

ToString

[C#] public Message OutputMessage {get;}

[C++] public: __property Message* get_OutputMessage();

[VB] Public ReadOnly Property OutputMessage As Message

[JScript] public function get OutputMessage() : Message;

Description

Port

ToString

[C#] public Port Port {get;}

[C++] public: __property Port* get_Port();

[VB] Public ReadOnly Property Port As Port

[JScript] public function get Port() : Port;

Description

PortType

ToString

[C#] public PortType PortType {get;}

[C++] public: __property PortType* get_PortType();

[VB] Public ReadOnly Property PortType As PortType

```
[JScript] public function get PortType() : PortType;
```

Description

ProtocolName

ToString

```
[C#] public abstract string ProtocolName {get;}
[C++] public: __property virtual String* get_ProtocolName() = 0;
[VB] MustOverride Public ReadOnly Property ProtocolName As String
[JScript] public abstract function get ProtocolName() : String;
```

Description

Schemas

ToString

```
[C#] public XmlSchemas Schemas {get;}
[C++] public: __property XmlSchemas* get_Schemas();
[VB] Public ReadOnly Property Schemas As XmlSchemas
[JScript] public function get Schemas() : XmlSchemas;
```

Description

Service

ToString

[C#] public Service Service {get;}

[C++] public: __property Service* get_Service();

[VB] Public ReadOnly Property Service As Service

[JScript] public function get Service() : Service;

Description

ServiceDescriptions

ToString

[C#] public ServiceDescriptionCollection ServiceDescriptions {get;}

[C++] public: __property ServiceDescriptionCollection* get_ServiceDescriptions();

[VB] Public ReadOnly Property ServiceDescriptions As ServiceDescriptionCollection

[JScript] public function get ServiceDescriptions() : ServiceDescriptionCollection;

Description

Style

ToString

[C#] public ServiceDescriptionImportStyle Style {get;}

```
[C++] public: __property ServiceDescriptionImportStyle get_Style();
[VB] Public ReadOnly Property Style As ServiceDescriptionImportStyle
[JScript] public function get Style() : ServiceDescriptionImportStyle;
```

Description

Warnings

ToString

```
[C#] public ServiceDescriptionImportWarnings Warnings {get; set;}
[C++] public: __property ServiceDescriptionImportWarnings
get_Warnings();public: __property void
set_Warnings(ServiceDescriptionImportWarnings);
[VB] Public Property Warnings As ServiceDescriptionImportWarnings
[JScript] public function get Warnings() :
ServiceDescriptionImportWarnings;public function set
Warnings(ServiceDescriptionImportWarnings);
```

Description

AddExtensionWarningComments

```
[C#] public void
AddExtensionWarningComments(CodeCommentStatementCollection comments,
ServiceDescriptionFormatExtensionCollection extensions);
```

```
[C++] public: void
AddExtensionWarningComments(CodeCommentStatementCollection* comments,
ServiceDescriptionFormatExtensionCollection* extensions);
[VB] Public Sub AddExtensionWarningComments(ByVal comments As
CodeCommentStatementCollection, ByVal extensions As
ServiceDescriptionFormatExtensionCollection)
[JScript] public function AddExtensionWarningComments(comments :
CodeCommentStatementCollection, extensions :
ServiceDescriptionFormatExtensionCollection);
```

Description

BeginClass

```
[C#] protected abstract CodeTypeDeclaration BeginClass();
[C++] protected: virtual CodeTypeDeclaration* BeginClass() = 0;
[VB] MustOverride Protected Function BeginClass() As CodeTypeDeclaration
[JScript] protected abstract function BeginClass() : CodeTypeDeclaration;
```

Description

BeginNamespace

```
[C#] protected virtual void BeginNamespace();
[C++] protected: virtual void BeginNamespace();
```

```
[VB] Overridable Protected Sub BeginNamespace()
[JScript] protected function BeginNamespace();
```

Description

EndClass

```
[C#] protected virtual void EndClass();
[C++] protected: virtual void EndClass();
[VB] Overridable Protected Sub EndClass()
[JScript] protected function EndClass();
```

Description

EndNamespace

```
[C#] protected virtual void EndNamespace();
[C++] protected: virtual void EndNamespace();
[VB] Overridable Protected Sub EndNamespace()
[JScript] protected function EndNamespace();
```

Description

GenerateMethod

[C#] protected abstract CodeMemberMethod GenerateMethod();

[C++] protected: virtual CodeMemberMethod* GenerateMethod() = 0;

[VB] MustOverride Protected Function GenerateMethod() As CodeMemberMethod

[JScript] protected abstract function GenerateMethod() : CodeMemberMethod;

Description

IsBindingSupported

[C#] protected abstract bool IsBindingSupported();

[C++] protected: virtual bool IsBindingSupported() = 0;

[VB] MustOverride Protected Function IsBindingSupported() As Boolean

[JScript] protected abstract function IsBindingSupported() : Boolean;

Description

IsOperationFlowSupported

[C#] protected abstract bool IsOperationFlowSupported(OperationFlow flow);

[C++] protected: virtual bool IsOperationFlowSupported(OperationFlow flow) = 0;

[VB] MustOverride Protected Function IsOperationFlowSupported(ByVal flow As OperationFlow) As Boolean

[JScript] protected abstract function IsOperationFlowSupported(flow : OperationFlow) : Boolean;

Description

OperationBindingSyntaxException

[C#] public Exception OperationBindingSyntaxException(string text);

[C++] public: Exception* OperationBindingSyntaxException(String* text);

[VB] Public Function OperationBindingSyntaxException(ByVal text As String) As Exception

[JScript] public function OperationBindingSyntaxException(text : String) : Exception;

Description

OperationSyntaxException

[C#] public Exception OperationSyntaxException(string text);

[C++] public: Exception* OperationSyntaxException(String* text);

[VB] Public Function OperationSyntaxException(ByVal text As String) As Exception

[JScript] public function OperationSyntaxException(text : String) : Exception;

Description

UnsupportedBindingWarning

```
[C#] public void UnsupportedBindingWarning(string text);
[C++] public: void UnsupportedBindingWarning(String* text);
[VB] Public Sub UnsupportedBindingWarning(ByVal text As String)
[JScript] public function UnsupportedBindingWarning(text : String);
```

Description

UnsupportedOperationBindingWarning

```
[C#] public void UnsupportedOperationBindingWarning(string text);
[C++] public: void UnsupportedOperationBindingWarning(String* text);
[VB] Public Sub UnsupportedOperationBindingWarning(ByVal text As String)
[JScript] public function UnsupportedOperationBindingWarning(text : String);
```

Description

UnsupportedOperationWarning

```
[C#] public void UnsupportedOperationWarning(string text);
[C++] public: void UnsupportedOperationWarning(String* text);
[VB] Public Sub UnsupportedOperationWarning(ByVal text As String)
[JScript] public function UnsupportedOperationWarning(text : String);
```

Description

ProtocolReflector class (System.Web.Services.Description)

UnsupportedOperationWarning

Description

ProtocolReflector

Example Syntax:

UnsupportedOperationWarning

```
[C#] protected ProtocolReflector();
[C++] protected: ProtocolReflector();
[VB] Protected Sub New()
[JScript] protected function ProtocolReflector();
```

Binding

UnsupportedOperationWarning

```
[C#] public Binding Binding {get;}
[C++] public: __property Binding* get_Binding();
[VB] Public ReadOnly Property Binding As Binding
[JScript] public function get Binding() : Binding;
```

Description

DefaultNamespace

UnsupportedOperationWarning

```
[C#] public string DefaultNamespace {get;}
[C++] public: __property String* get_DefaultNamespace();
[VB] Public ReadOnly Property DefaultNamespace As String
[JScript] public function get DefaultNamespace() : String;
```

Description

HeaderMessages

UnsupportedOperationWarning

```
[C#] public MessageCollection HeaderMessages {get;}
[C++] public: __property MessageCollection* get_HeaderMessages();
[VB] Public ReadOnly Property HeaderMessages As MessageCollection
[JScript] public function get HeaderMessages() : MessageCollection;
```

Description

InputMessage

UnsupportedOperationWarning

```
[C#] public Message InputMessage {get;}
[C++] public: __property Message* get_InputMessage();
[VB] Public ReadOnly Property InputMessage As Message
[JScript] public function get InputMessage() : Message;
```

Description

Method

UnsupportedOperationWarning

```
[C#] public LogicalMethodInfo Method {get;}
[C++] public: __property LogicalMethodInfo* get_Method();
[VB] Public ReadOnly Property Method As LogicalMethodInfo
[JScript] public function get Method() : LogicalMethodInfo;
```

Description

MethodAttribute

UnsupportedOperationWarning

```
[C#] public WebMethodAttribute MethodAttribute {get;}
[C++] public: __property WebMethodAttribute* get_MethodAttribute();
[VB] Public ReadOnly Property MethodAttribute As WebMethodAttribute
[JScript] public function get MethodAttribute() : WebMethodAttribute;
```

Description

Methods

UnsupportedOperationWarning

```
[C#] public LogicalMethodInfo[] Methods {get;}
[C++] public: __property LogicalMethodInfo* get_Methods();
[VB] Public ReadOnly Property Methods As LogicalMethodInfo ()
[JScript] public function get Methods() : LogicalMethodInfo[];
```

Description

Operation

UnsupportedOperationWarning

```
[C#] public Operation Operation {get;}
[C++] public: __property Operation* get_Operation();
[VB] Public ReadOnly Property Operation As Operation
[JScript] public function get Operation() : Operation;
```

Description

OperationBinding

UnsupportedOperationWarning

```
[C#] public OperationBinding OperationBinding {get;}
[C++] public: __property OperationBinding* get_OperationBinding();
[VB] Public ReadOnly Property OperationBinding As OperationBinding
[JScript] public function get OperationBinding() : OperationBinding;
```

Description

OutputMessage

UnsupportedOperationWarning

```
[C#] public Message OutputMessage {get;}
[C++] public: __property Message* get_OutputMessage();
[VB] Public ReadOnly Property OutputMessage As Message
[JScript] public function get OutputMessage() : Message;
```

Description

Port

UnsupportedOperationWarning

```
[C#] public Port Port {get;}
[C++] public: __property Port* get_Port();
[VB] Public ReadOnly Property Port As Port
[JScript] public function get Port() : Port;
```

Description

PortType

UnsupportedOperationWarning

[C#] public PortType PortType {get;}

[C++] public: __property PortType* get_PortType();

[VB] Public ReadOnly Property PortType As PortType

[JScript] public function get PortType() : PortType;

Description

ProtocolName

UnsupportedOperationWarning

[C#] public abstract string ProtocolName {get;}

[C++] public: __property virtual String* get_ProtocolName() = 0;

[VB] MustOverride Public ReadOnly Property ProtocolName As String

[JScript] public abstract function get ProtocolName() : String;

Description

ReflectionImporter

UnsupportedOperationWarning

[C#] public XmlReflectionImporter ReflectionImporter {get;}

[C++] public: __property XmlReflectionImporter* get_ReflectionImporter();

[VB] Public ReadOnly Property ReflectionImporter As XmlReflectionImporter

[JScript] public function get ReflectionImporter() : XmlReflectionImporter;

Description

SchemaExporter

UnsupportedOperationWarning

[C#] public XmlSchemaExporter SchemaExporter {get;}

[C++] public: __property XmlSchemaExporter* get_SchemaExporter();

[VB] Public ReadOnly Property SchemaExporter As XmlSchemaExporter

[JScript] public function get SchemaExporter() : XmlSchemaExporter;

Description

Schemas

UnsupportedOperationWarning

[C#] public XmlSchemas Schemas {get;}

[C++] public: __property XmlSchemas* get_Schemas();

[VB] Public ReadOnly Property Schemas As XmlSchemas

[JScript] public function get Schemas() : XmlSchemas;

Description

Service

UnsupportedOperationWarning

[C#] public Service Service {get;}

[C++] public: __property Service* get_Service();

[VB] Public ReadOnly Property Service As Service

[JScript] public function get Service() : Service;

Description

ServiceDescription

UnsupportedOperationWarning

[C#] public ServiceDescription ServiceDescription {get;}

[C++] public: __property ServiceDescription* get_ServiceDescription();

[VB] Public ReadOnly Property ServiceDescription As ServiceDescription

[JScript] public function get ServiceDescription() : ServiceDescription;

Description

ServiceDescriptions

UnsupportedOperationWarning

```
[C#] public ServiceDescriptionCollection ServiceDescriptions {get;}
[C++] public: __property ServiceDescriptionCollection*
get_ServiceDescriptions();
[VB] Public ReadOnly Property ServiceDescriptions As
ServiceDescriptionCollection
[JScript] public function get ServiceDescriptions() : ServiceDescriptionCollection;
```

Description

ServiceType

UnsupportedOperationWarning

```
[C#] public Type ServiceType {get;}
[C++] public: __property Type* get_ServiceType();
[VB] Public ReadOnly Property ServiceType As Type
[JScript] public function get ServiceType() : Type;
```

Description

ServiceUrl

UnsupportedOperationWarning

```
[C#] public string ServiceUrl {get;}
[C++] public: __property String* get_ServiceUrl();
```

[VB] Public ReadOnly Property ServiceUrl As String

[JScript] public function get ServiceUrl() : String;

Description

BeginClass

[C#] protected virtual void BeginClass();

[C++] protected: virtual void BeginClass();

[VB] Overridable Protected Sub BeginClass()

[JScript] protected function BeginClass();

Description

EndClass

[C#] protected virtual void EndClass();

[C++] protected: virtual void EndClass();

[VB] Overridable Protected Sub EndClass()

[JScript] protected function EndClass();

Description

GetServiceDescription

[C#] public ServiceDescription GetServiceDescription(string ns);

[C++] public: ServiceDescription* GetServiceDescription(String* ns);

[VB] Public Function GetServiceDescription(ByVal ns As String) As ServiceDescription

[JScript] public function GetServiceDescription(ns : String) : ServiceDescription;

Description

ReflectMethod

[C#] protected abstract bool ReflectMethod();

[C++] protected: virtual bool ReflectMethod() = 0;

[VB] MustOverride Protected Function ReflectMethod() As Boolean

[JScript] protected abstract function ReflectMethod() : Boolean;

Description

ReflectMethodBinding

[C#] protected virtual string ReflectMethodBinding();

[C++] protected: virtual String* ReflectMethodBinding();

[VB] Overridable Protected Function ReflectMethodBinding() As String

[JScript] protected function ReflectMethodBinding() : String;

Description

Service class (System.Web.Services.Description)

ToString

Description

Groups together a set of related **System.Web.Services.Description.Port** instances associated with a Web Service. This class cannot be inherited.

Service

Example Syntax:

ToString

[C#] public Service();

[C++] public: Service();

[VB] Public Sub New()

[JScript] public function Service();

Documentation

Extensions

ToString

Description

Gets the collection of extensibility elements contained in the **System.Web.Services.Description.Service** instance.

This property will generally only be populated with members if the members of the **System.Web.Services.Description.Service.Ports** property lack extensibility elements.

Name

ToString

[C#] public string Name {get; set;}

[C++] public: __property String* get_Name();public: __property void set_Name(String*);

[VB] Public Property Name As String

[JScript] public function get Name() : String;public function set Name(String);

Description

Gets or sets the name of the **System.Web.Services.Description.Service** instance.

Ports

ToString

[C#] public PortCollection Ports {get;}

[C++] public: __property PortCollection* get_Ports();

[VB] Public ReadOnly Property Ports As PortCollection

[JScript] public function get Ports() : PortCollection;

Description

Gets the collection of **System.Web.Services.Description.Port** instances contained in the **System.Web.Services.Description.Service** instance.

ServiceDescription

ToString

[C#] public ServiceDescription ServiceDescription {get;}

[C++] public: __property ServiceDescription* get_ServiceDescription();

[VB] Public ReadOnly Property ServiceDescription As ServiceDescription

[JScript] public function get ServiceDescription() : ServiceDescription;

Description

Gets the **System.Web.Services.Description.ServiceDescription** of which the **Service** instance is a member.

ServiceCollection class (System.Web.Services.Description)

ToString

Description

Represents a collection of **System.Web.Services.Description.Service** objects. This class cannot be inherited.

Count

InnerList

Item

ToString

System.Web.Services.Description.Service

Description

Gets or sets the value of a **System.Web.Services.Description.Service** at the specified zero-based index. The zero-based index of the **Service** to be modified or returned.

Item

ToString

[C#] public Service this[string name] {get;}

[C++] public: __property Service* get_Item(String* name);

[VB] Public Default ReadOnly Property Item(ByVal name As String) As Service

[JScript] returnValue = ServiceCollectionObject.Item(name);

Description

Gets the Service instance by the value of its **System.Web.Services.Description.Service.Name** property. The string value representing the name of the **System.Web.Services.Description.Service** returned.

List

Table

Add

[C#] public int Add(Service service);

[C++] public: int Add(Service* service);

[VB] Public Function Add(ByVal service As Service) As Integer

[JScript] public function Add(service : Service) : int;

Description

Adds the specified **System.Web.Services.Description.Service** instance to the end of the **ServiceCollection** .

Return Value: Returns the zero-based index where *service* has been added. The **System.Web.Services.Description.Service** instance to be added to the **ServiceCollection.**

Contains

[C#] public bool Contains(Service service);

[C++] public: bool Contains(Service* service);

[VB] Public Function Contains(ByVal service As Service) As Boolean

[JScript] public function Contains(service : Service) : Boolean;

Description

Gets a value indicating whether the specified **System.Web.Services.Description.Service** instance is a member of the **ServiceCollection** .

Return Value: **true** if the specified **System.Web.Services.Description.Service** instance is a member of the **ServiceCollection** ; otherwise, **false** . A **System.Web.Services.Description.Service** object.

CopyTo

```
[C#] public void CopyTo(Service[] array, int index);
[C++] public: void CopyTo(Service* array[], int index);
[VB] Public Sub CopyTo(ByVal array() As Service, ByVal index As Integer)
[JScript] public function CopyTo(array : Service[], index : int);
```

Description

Copies the entire **ServiceCollection** to a one-dimensional array of type **System.Web.Services.Description.Service** , starting at the specified zero-based index of the target array. An array of type **System.Web.Services.Description.Service** serving as the destination of the copy action. The zero-based index at which to start placing the copied **ServiceCollection.**

GetKey

```
[C#] protected override string GetKey(object value);
[C++] protected: String* GetKey(Object* value);
[VB] Overrides Protected Function GetKey(ByVal value As Object) As String
[JScript] protected override function GetKey(value : Object) : String;
```

Description

Returns the name of the **System.Web.Services.Description.Service** associated with the value passed by reference. An object for which to return the name.

IndexOf

```
[C#] public int IndexOf(Service service);
[C++] public: int IndexOf(Service* service);
[VB] Public Function IndexOf(ByVal service As Service) As Integer
[JScript] public function IndexOf(service : Service) : int;
```

Description

Searches for the specified **System.Web.Services.Description.Service** instance and returns the zero-based index of the first occurrence within the **ServiceCollection** .

Return Value: Returns a 32-bit signed integer. A **System.Web.Services.Description.Service** object.

Insert

```
[C#] public void Insert(int index, Service service);
[C++] public: void Insert(int index, Service* service);
[VB] Public Sub Insert(ByVal index As Integer, ByVal service As Service)
[JScript] public function Insert(index : int, service : Service);
```

Description

Adds the specified **System.Web.Services.Description.Service** instance to the **ServiceCollection** at the specified zero-based index.

If the number of items in the collection already equals the collection's capacity, the capacity is doubled by automatically reallocating the internal array before the new element is inserted. The zero-based index at which to insert the specified **System.Web.Services.Description.Service**. The **System.Web.Services.Description.Service** instance to be added to the **ServiceCollection**.

Remove

[C#] public void Remove(Service service);

[C++] public: void Remove(Service* service);

[VB] Public Sub Remove(ByVal service As Service)

[JScript] public function Remove(service : Service);

Description

Removes the first occurrence of the specified **System.Web.Services.Description.Service** from the **ServiceCollection** .

This method performs a linear search; therefore, the average execution time is proportional to **System.Web.Services.Description.ServiceCollection.Count** . A **System.Web.Services.Description.Service** object.

SetParent

[C#] protected override void SetParent(object value, object parent);

[C++] protected: void SetParent(Object* value, Object* parent);

[VB] Overrides Protected Sub SetParent(ByVal value As Object, ByVal parent As Object)

[JScript] protected override function SetParent(value : Object, parent : Object);

Description

Sets the parent **System.Web.Services.Description.ServiceDescription** of a member of **System.Web.Services.Description.ServiceCollection** . An object, of type **System.Web.Services.Description.Service**, within the **ServiceCollection**. The object, of type **System.Web.Services.Description.ServiceDescription**, to be set as the parent.

ServiceDescription class (System.Web.Services.Description)

ToString

Description

Provides a means of creating and formatting a valid WSDL (XML) document file, complete with appropriate namespaces, elements and attributes, for describing a Web Service. This class cannot be inherited.

Instances of this class can be created with either the **new** keyword or the static **System.Web.Services.Description.ServiceDescription.Read(System.IO.TextReader)** method, which parses a WSDL (Web Service Description Language) file and assigns its values to appropriate members of the class.

ToString

[C#] public const string Namespace;

[C++] public: const String* Namespace;

[VB] Public Const Namespace As String

[JScript] public var Namespace : String;

Description

The XML namespace in which the **ServiceDescription** class is defined ("http://schemas.xmlsoap.org/wsdl/"). This field is constant.

ServiceDescription

Example Syntax:

ToString

[C#] public ServiceDescription();

[C++] public: ServiceDescription();

[VB] Public Sub New()

[JScript] public function ServiceDescription();

Bindings

ToString

[C#] public BindingCollection Bindings {get;}

[C++] public: __property BindingCollection* get_Bindings();

[VB] Public ReadOnly Property Bindings As BindingCollection

[JScript] public function get Bindings() : BindingCollection;

Description

Represents the collection of **System.Web.Services.Description.Binding** elements that the **System.Web.Services.Description.ServiceDescription** contains.

Documentation

Extensions

ToString

Description

Gets the collection of extensibility elements that the **System.Web.Services.Description.ServiceDescription** contains.

Imports

ToString

[C#] public ImportCollection Imports {get;}

[C++] public: __property ImportCollection* get_Imports();

[VB] Public ReadOnly Property Imports As ImportCollection

[JScript] public function get Imports() : ImportCollection;

Description

Gets the collection of **System.Web.Services.Description.Import** elements that the **System.Web.Services.Description.ServiceDescription** contains.

Messages

ToString

[C#] public MessageCollection Messages {get;}

[C++] public: __property MessageCollection* get_Messages();

[VB] Public ReadOnly Property Messages As MessageCollection

[JScript] public function get Messages() : MessageCollection;

Description

The collection of **System.Web.Services.Description.Message** elements the **System.Web.Services.Description.ServiceDescription** contains.

Name

ToString

[C#] public string Name {get; set;}

[C++] public: __property String* get_Name();public: __property void set_Name(String*);

[VB] Public Property Name As String

[JScript] public function get Name() : String;public function set Name(String);

Description

Gets or sets the XML **Name** attribute of the **Descriptions** tag enclosing the WSDL file.

Returns an empty string ("") if this property value has not been assigned.

PortTypes

ToString

[C#] public PortTypeCollection PortTypes {get;}

[C++] public: __property PortTypeCollection* get_PortTypes();

[VB] Public ReadOnly Property PortTypes As PortTypeCollection

[JScript] public function get PortTypes() : PortTypeCollection;

Description

The collection of **System.Web.Services.Description.PortType** elements the **System.Web.Services.Description.ServiceDescription** contains.

RetrievalUrl

ToString

[C#] public string RetrievalUrl {get; set;}

[C++] public: __property String* get_RetrievalUrl();public: __property void set_RetrievalUrl(String*);

[VB] Public Property RetrievalUrl As String

[JScript] public function get RetrievalUrl() : String;public function set RetrievalUrl(String);

Serializer

ToString

[C#] public static XmlSerializer Serializer {get;}

[C++] public: __property static XmlSerializer* get_Serializer();

[VB] Public Shared ReadOnly Property Serializer As XmlSerializer

[JScript] public static function get Serializer() : XmlSerializer; Returns the serializer for processing web service calls. The serializer is customized according to settings in config.web.

ServiceDescriptions

ToString

[C#] public ServiceDescriptionCollection ServiceDescriptions {get;}

[C++] public: __property ServiceDescriptionCollection* get_ServiceDescriptions();

[VB] Public ReadOnly Property ServiceDescriptions As ServiceDescriptionCollection

[JScript] public function get ServiceDescriptions() : ServiceDescriptionCollection;

Description

The **System.Web.Services.Description.ServiceDescriptionCollection** instance of which the **System.Web.Services.Description.ServiceDescription** is a member.

This property is read-only.

Services

ToString

[C#] public ServiceCollection Services {get;}

[C++] public: __property ServiceCollection* get_Services();

[VB] Public ReadOnly Property Services As ServiceCollection

[JScript] public function get Services() : ServiceCollection;

Description

Gets the collection of **System.Web.Services.Description.Service** instances that the **System.Web.Services.Description.ServiceDescription** contains.

TargetNamespace

ToString

[C#] public string TargetNamespace {get; set;}

[C++] public: __property String* get_TargetNamespace();public: __property void set_TargetNamespace(String*);

[VB] Public Property TargetNamespace As String

[JScript] public function get TargetNamespace() : String;public function set TargetNamespace(String);

Description

Gets or sets the XML **targetNamespace** attribute of the **Descriptions** tag enclosing a WSDL file.

Types

ToString

[C#] public Types Types {get; set;}

[C++] public: __property Types* get_Types();public: __property void set_Types(Types*);

[VB] Public Property Types As Types

[JScript] public function get Types() : Types;public function set Types(Types);

Description

Gets or sets the **System.Web.Services.Description.Types** contained by the **ServiceDescription** instance.

CanRead

[C#] public static bool CanRead(XmlReader reader);

[C++] public: static bool CanRead(XmlReader* reader);

[VB] Public Shared Function CanRead(ByVal reader As XmlReader) As Boolean

[JScript] public static function CanRead(reader : XmlReader) : Boolean;

Description

Gets a value indicating whether an **System.Xml.XmlReader** represents a valid WSDL file that can be parsed.

Return Value: **True** if the **System.Xml.Serialization.XmlSerializer** can recognize the node on which the **System.Xml.XmlReader** is positioned; otherwise **false** . An **System.Xml.XmlReader**

Read

[C#] public static ServiceDescription Read(Stream stream);

[C++] public: static ServiceDescription* Read(Stream* stream);

[VB] Public Shared Function Read(ByVal stream As Stream) As ServiceDescription

[JScript] public static function Read(stream : Stream) : ServiceDescription;

Description

Initializes an instance of a **System.Web.Services.Description.ServiceDescription** object by directly loading the XML from a **System.IO.Stream** instance.

Return Value: Returns a **System.Web.Services.Description.ServiceDescription** object. A **System.IO.Stream** object, passed by reference, that contains the bytes to be read in.

Read

[C#] public static ServiceDescription Read(string fileName);

[C++] public: static ServiceDescription* Read(String* fileName);

[VB] Public Shared Function Read(ByVal fileName As String) As ServiceDescription

[JScript] public static function Read(fileName : String) : ServiceDescription;

Description

Initializes an instance of a **System.Web.Services.Description.ServiceDescription** object by directly loading the XML from the specified file.

Return Value: Returns a **System.Web.Services.Description.ServiceDescription** object. A string representing the path to the file to be read in.

Read

[C#] public static ServiceDescription Read(TextReader textReader);

[C++] public: static ServiceDescription* Read(TextReader* textReader);

[VB] Public Shared Function Read(ByVal textReader As TextReader) As ServiceDescription

[JScript] public static function Read(textReader : TextReader) : ServiceDescription; Initializes an instance of a **System.Web.Services.Description.ServiceDescription** object by directly loading the XML.

Description

Initializes an instance of a **System.Web.Services.Description.ServiceDescription** object by directly loading the XML from a **System.IO.TextReader** instance.

Return Value: Returns a **System.Web.Services.Description.ServiceDescription** object. A **System.IO.TextReader** object, passed by reference, that contains the text to be read in.

Read

[C#] public static ServiceDescription Read(XmlReader reader);

[C++] public: static ServiceDescription* Read(XmlReader* reader);

[VB] Public Shared Function Read(ByVal reader As XmlReader) As ServiceDescription

[JScript] public static function Read(reader : XmlReader) : ServiceDescription;

Description

Initializes an instance of a **System.Web.Services.Description.ServiceDescription** object by directly loading the XML from an **System.Xml.XmlReader** instance.

Return Value: Returns a **System.Web.Services.Description.ServiceDescription** object. An **System.Xml.XmlReader** instance, passed by reference, that contains the XML data to be read in.

Write

[C#] public void Write(Stream stream);
[C++] public: void Write(Stream* stream);
[VB] Public Sub Write(ByVal stream As Stream)
[JScript] public function Write(stream : Stream);

Description

Writes out the **System.Web.Services.Description.ServiceDescription** to the specified **System.IO.Stream** instance. A **System.IO.Stream**, passed by reference, that contains the WSDL file produced.

Write

[C#] public void Write(string fileName);
[C++] public: void Write(String* fileName);
[VB] Public Sub Write(ByVal fileName As String)
[JScript] public function Write(fileName : String); Writes out the **System.Web.Services.Description.ServiceDescription** as a WSDL file.

Description

Writes out the **System.Web.Services.Description.ServiceDescription** as a WSDL file to the specified path. A string representing the physical path to which the WSDL file is written.

Write

[C#] public void Write(TextWriter writer);

[C++] public: void Write(TextWriter* writer);

[VB] Public Sub Write(ByVal writer As TextWriter)

[JScript] public function Write(writer : TextWriter);

Description

Writes out the **System.Web.Services.Description.ServiceDescription** to the **System.IO.TextWriter** instance. A **System.IO.TextWriter** instance.

Write

[C#] public void Write(XmlWriter writer);

[C++] public: void Write(XmlWriter* writer);

[VB] Public Sub Write(ByVal writer As XmlWriter)

[JScript] public function Write(writer : XmlWriter);

Description

Writes out the **System.Web.Services.Description.ServiceDescription** to the **System.Xml.XmlWriter** as a WSDL file. An **System.Xml.XmlWriter**, passed by reference, that contains the WSDL file produced.

ServiceDescriptionBaseCollection class

(System.Web.Services.Description)

Write

Description

Forms the basis for the strongly typed collections that are members of the **System.Web.Services.Description** namespace.

Count

InnerList

List

Table

Write

Description

Gets an interface that implements the association of the keys and values in the **System.Web.Services.Description.ServiceDescriptionBaseCollection** instance.

The default implementation returns a **System.Collections.Hashtable** to associate the keys and values. This protected method is accessible only through this class or a derived class.

GetKey

[C#] protected virtual string GetKey(object value);

[C++] protected: virtual String* GetKey(Object* value);

[VB] Overridable Protected Function GetKey(ByVal value As Object) As String

[JScript] protected function GetKey(value : Object) : String;

Description

Returns the name of the key associated with the value passed by reference.

The default implementation of this method is intended to be overridden by a derived class to return the name of the key associated with *value* . Note that the default implementation returns null (**Nothing** in Visual Basic). This protected method is accessible only through this class or a derived class. An object for which to return the name of the key.

OnClear

[C#] protected override void OnClear();

[C++] protected: void OnClear();

[VB] Overrides Protected Sub OnClear()

[JScript] protected override function OnClear();

Description

Clears the contents of the **System.Web.Services.Description.ServiceDescriptionBaseCollection** instance.

This method is intended to be overridden to perform additional processes when clearing the contents of a derived Collection. This protected method is accessible only through this class or a derived class.

OnInsertComplete

[C#] protected override void OnInsertComplete(int index, object value);

[C++] protected: void OnInsertComplete(int index, Object* value);

[VB] Overrides Protected Sub OnInsertComplete(ByVal index As Integer, ByVal value As Object)

[JScript] protected override function OnInsertComplete(index : int, value :

Object);

Description

Performs additional custom processes when inserting a new element into the **System.Web.Services.Description.ServiceDescriptionBaseCollection** instance.

The default implementation of this method is intended to be overridden by a derived class to perform some action when the specified element is inserted. The zero-based index at which to insert the object represented by the *value* parameter. The new value of the element at the specified zero-based index.

OnRemove

[C#] protected override void OnRemove(int index, object value);
[C++] protected: void OnRemove(int index, Object* value);
[VB] Overrides Protected Sub OnRemove(ByVal index As Integer, ByVal value As Object)
[JScript] protected override function OnRemove(index : int, value : Object);

Description

Removes an element from the **System.Web.Services.Description.ServiceDescriptionBaseCollection** instance.

This method is intended to be overridden to perform additional processes when an element is removed from the **ServiceDescriptionBaseCollection** instance. The zero-based index at which the object represented by the *value* parameter can be found. The object to remove from the collection.

OnSet

[C#] protected override void OnSet(int index, object oldValue, object newValue);

[C++] protected: void OnSet(int index, Object* oldValue, Object* newValue);

[VB] Overrides Protected Sub OnSet(ByVal index As Integer, ByVal oldValue As Object, ByVal newValue As Object)

[JScript] protected override function OnSet(index : int, oldValue : Object, newValue : Object);

Description

Replaces one value with another within the **System.Web.Services.Description.ServiceDescriptionBaseCollection** instance.

The default implementation of this method is intended to be overridden to perform additional processes when setting the value of an element in the **ServiceDescriptionBaseCollection** instance. This protected method is accessible only through this class or a derived class. The zero-based index where the object represented by the *oldValue* parameter can be found. The object to replace with the object represented by the *newValue* parameter. The object that replaces the object represented by the *oldValue* parameter.

SetParent

[C#] protected virtual void SetParent(object value, object parent);

[C++] protected: virtual void SetParent(Object* value, Object* parent);

[VB] Overridable Protected Sub SetParent(ByVal value As Object, ByVal parent As Object)

[JScript] protected function SetParent(value : Object, parent : Object);

Description

Sets the Parent property of the **System.Web.Services.Description.ServiceDescriptionBaseCollection** instance.

The default implementation of this method is intended to be overridden by a derived class to set a parent of an appropriate class. Note also that the default implementation performs no action. This protected method is accessible only through this class or a derived class. The object for which to set the parent object. The object to set as the parent.

ServiceDescriptionCollection class (System.Web.Services.Description)

ToString

Description

Represents a collection of **System.Web.Services.Description.ServiceDescription** instances. This class cannot be inherited.

ServiceDescriptionCollection

Example Syntax:

ToString

[C#] public ServiceDescriptionCollection();

[C++] public: ServiceDescriptionCollection();

[VB] Public Sub New()

[JScript] public function ServiceDescriptionCollection();

Description

Initializes a new instance of the **System.Web.Services.Description.ServiceDescriptionCollection** class.

Count

InnerList

Item

ToString

System.Web.Services.Description.ServiceDescription

Description

Gets or sets the value of a **System.Web.Services.Description.ServiceDescription** at the specified zero-based index. The zero-based index of the **System.Web.Services.Description.ServiceDescription** whose value is modified or returned.

Item

ToString

[C#] public ServiceDescription this[string ns] {get;}

[C++] public: __property ServiceDescription* get_Item(String* ns);

[VB] Public Default ReadOnly Property Item(ByVal ns As String) As ServiceDescription

[JScript] returnValue = ServiceDescriptionCollectionObject.Item(ns);

Description

Gets a **System.Web.Services.Description.ServiceDescription** specified by its **System.Web.Services.Description.ServiceDescription.TargetNamespace** property. The namespace of the **System.Web.Services.Description.ServiceDescription** to be returned.

List

Table

Add

[C#] public int Add(ServiceDescription serviceDescription);

[C++] public: int Add(ServiceDescription* serviceDescription);

[VB] Public Function Add(ByVal serviceDescription As ServiceDescription) As Integer

[JScript] public function Add(serviceDescription : ServiceDescription) : int;

Description

Adds the specified **System.Web.Services.Description.ServiceDescription** to the end of the **ServiceDescriptionCollection** .

Return Value: Returns the zero-based index where the specified **System.Web.Services.Description.ServiceDescription** instance has been added. The **System.Web.Services.Description.ServiceDescription** to be added to the collection.

Contains

```
[C#] public bool Contains(ServiceDescription serviceDescription);
[C++] public: bool Contains(ServiceDescription* serviceDescription);
[VB] Public Function Contains(ByVal serviceDescription As ServiceDescription)
As Boolean
[JScript] public function Contains(serviceDescription : ServiceDescription) :
Boolean;
```

Description

Gets a value indicating whether the specified **System.Web.Services.Description.ServiceDescription** instance is a member of the collection.

Return Value: **true** if the specified ServiceDescription instance is a member of the **ServiceDescriptionCollection** ; otherwise **false** . A **System.Web.Services.Description.ServiceDescription** object.

CopyTo

```
[C#] public void CopyTo(ServiceDescription[] array, int index);
[C++] public: void CopyTo(ServiceDescription* array[], int index);
[VB] Public Sub CopyTo(ByVal array() As ServiceDescription, ByVal index As
Integer)
[JScript] public function CopyTo(array : ServiceDescription[], index : int);
```

Description

Copies the entire **ServiceDescriptionCollection** to a one-dimensional array of type **System.Web.Services.Description.ServiceDescription** , starting at the specified zero-based index of the target array. An array of type **System.Web.Services.Description.ServiceDescription** serving as the destination of the copy action. The zero-based index at which to start placing the copied collection.

GetBinding

[C#] public Binding GetBinding(XmlQualifiedName name);

[C++] public: Binding* GetBinding(XmlQualifiedName* name);

[VB] Public Function GetBinding(ByVal name As XmlQualifiedName) As Binding

[JScript] public function GetBinding(name : XmlQualifiedName) : Binding;

Description

Searches the **ServiceDescriptionCollection** and returns the **System.Web.Services.Description.Binding** instance with the specified name that is a member of one of the **System.Web.Services.Description.ServiceDescription** instances contained in the collection.

Return Value: A Binding object. The **System.Xml.XmlQualifiedName**, passed by reference, whose **Name** property is shared by the **System.Web.Services.Description.Binding** returned.

GetKey

[C#] protected override string GetKey(object value);

[C++] protected: String* GetKey(Object* value);

[VB] Overrides Protected Function GetKey(ByVal value As Object) As String

[JScript] protected override function GetKey(value : Object) : String;

Description

Returns the **System.Web.Services.Description.ServiceDescription.TargetNamespace** property of the **System.Web.Services.Description.ServiceDescription** associated with the value passed by reference. The object for which to return the TargetNamespace.

GetMessage

[C#] public Message GetMessage(XmlQualifiedName name);

[C++] public: Message* GetMessage(XmlQualifiedName* name);

[VB] Public Function GetMessage(ByVal name As XmlQualifiedName) As Message

[JScript] public function GetMessage(name : XmlQualifiedName) : Message;

Description

Searches the **ServiceDescriptionCollection** and returns the **System.Web.Services.Description.Message** instance with the specified name that is a member of one of the **System.Web.Services.Description.ServiceDescription** instances contained in the collection.

Return Value: A **System.Web.Services.Description.Message** object. The

System.Xml.XmlQualifiedName, passed by reference, whose **Name** property is shared by the **System.Web.Services.Description.Message** returned.

GetPortType

[C#] public PortType GetPortType(XmlQualifiedName name);

[C++] public: PortType* GetPortType(XmlQualifiedName* name);

[VB] Public Function GetPortType(ByVal name As XmlQualifiedName) As PortType

[JScript] public function GetPortType(name : XmlQualifiedName) : PortType;

Description

Searches the **ServiceDescriptionCollection** and returns the **System.Web.Services.Description.PortType** instance with the specified name that is a member of one of the **System.Web.Services.Description.ServiceDescription** instances contained in the collection.

Return Value: A **System.Web.Services.Description.PortType** object. The **System.Xml.XmlQualifiedName**, passed by reference, whose **Name** property is shared by the **System.Web.Services.Description.PortType** returned.

GetService

[C#] public Service GetService(XmlQualifiedName name);

[C++] public: Service* GetService(XmlQualifiedName* name);

[VB] Public Function GetService(ByVal name As XmlQualifiedName) As Service

[JScript] public function GetService(name : XmlQualifiedName) : Service;

Description

Searches the **ServiceDescriptionCollection** and returns the **System.Web.Services.Description.Service** instance with the specified name that is a member of one of the **System.Web.Services.Description.ServiceDescription** instances contained in the collection.

Return Value: A **System.Web.Services.Description.Service** object. The **System.Xml.XmlQualifiedName**, passed by reference, whose **Name** property is shared by the **System.Web.Services.Description.Service** returned.

IndexOf

[C#] public int IndexOf(ServiceDescription serviceDescription);
[C++] public: int IndexOf(ServiceDescription* serviceDescription);
[VB] Public Function IndexOf(ByVal serviceDescription As ServiceDescription) As Integer
[JScript] public function IndexOf(serviceDescription : ServiceDescription) : int;

Description

Searches for the specified **System.Web.Services.Description.ServiceDescription** instance and returns the zero-based index of the first occurrence within the **ServiceDescriptionCollection** .

Return Value: Returns a 32-bit signed integer. A **System.Web.Services.Description.ServiceDescription** object.

Insert

```
[C#] public void Insert(int index, ServiceDescription serviceDescription);
[C++] public: void Insert(int index, ServiceDescription* serviceDescription);
[VB] Public Sub Insert(ByVal index As Integer, ByVal serviceDescription As ServiceDescription)
[JScript] public function Insert(index : int, serviceDescription : ServiceDescription);
```

Description

Adds the specified **System.Web.Services.Description.ServiceDescription** instance to the **ServiceDescriptionCollection** at the specified index. The zero-based index at which to insert the specified **System.Web.Services.Description.ServiceDescription**. The **System.Web.Services.Description.ServiceDescription** to add to the collection.

Remove

```
[C#] public void Remove(ServiceDescription serviceDescription);
[C++] public: void Remove(ServiceDescription* serviceDescription);
[VB] Public Sub Remove(ByVal serviceDescription As ServiceDescription)
[JScript] public function Remove(serviceDescription : ServiceDescription);
```

Description

Removes the first occurrence of a **System.Web.Services.Description.ServiceDescription** instance specified by the *serviceDescription* parameter from the **ServiceDescriptionCollection** .

This method performs a linear search; therefore, the average execution time is proportional to **Count** . The **System.Web.Services.Description.ServiceDescription** to be removed from the collection.

ServiceDescriptionFormatExtension class (System.Web.Services.Description)

ToString

Description

Represents an extensibility element added to a Web Service.

In a derived class, the **ServiceDescriptionFormatExtension** class allows users to define extensibility elements in addition to those defined in the WSDL specification. Note that extensibility elements can be added to a **ServiceDescription** at any of several levels. Thus multiple classes derived from the **System.Web.Services.Description.DocumentableItem** class (including the **System.Web.Services.Description.ServiceDescription** class) have an **Extensions** property, which returns a **System.Web.Services.Description.ServiceDescriptionFormatExtensionCollection** .

ServiceDescriptionFormatExtension

Example Syntax:

ToString

[C#] protected ServiceDescriptionFormatExtension();

[C++] protected: ServiceDescriptionFormatExtension();

[VB] Protected Sub New()

[JScript] protected function ServiceDescriptionFormatExtension();

Handled

ToString

[C#] public bool Handled {get; set;}

[C++] public: __property bool get_Handled();public: __property void set_Handled(bool);

[VB] Public Property Handled As Boolean

[JScript] public function get Handled() : Boolean;public function set Handled(Boolean);

Description

Gets or sets a value indicating whether the **System.Web.Services.Description.ServiceDescriptionFormatExtension** is handled by the action to which it refers.

Parent

ToString

[C#] public object Parent {get;}

[C++] public: __property Object* get_Parent();

[VB] Public ReadOnly Property Parent As Object

[JScript] public function get Parent() : Object;

Description

Gets the parent object of the **System.Web.Services.Description.ServiceDescriptionFormatExtension** .

When overridden in a derived class, the class returned by this property will be a derived class rather than the base **System.Object** class.

Required

ToString

[C#] public bool Required {get; set;}

[C++] public: __property bool get_Required();public: __property void set_Required(bool);

[VB] Public Property Required As Boolean

[JScript] public function get Required() : Boolean;public function set Required(Boolean);

Description

Gets or sets a value indicating whether the **System.Web.Services.Description.ServiceDescriptionFormatExtension** is necessary for the action to which it refers.

ServiceDescriptionFormatExtensionCollection class (System.Web.Services.Description)

ToString

Description

Represents the collection of extensibility elements used by the Web Service. This class cannot be inherited.

ServiceDescriptionFormatExtensionCollection

Example Syntax:

ToString

[C#] public ServiceDescriptionFormatExtensionCollection(object parent);

[C++] public: ServiceDescriptionFormatExtensionCollection(Object* parent);

[VB] Public Sub New(ByVal parent As Object)

[JScript] public function ServiceDescriptionFormatExtensionCollection(parent : Object);

Description

Initializes a new instance of the **System.Web.Services.Description.ServiceDescriptionFormatExtensionCollection** class. The **System.Web.Services.Description.ServiceDescription** of which this collection is a member.

Count

InnerList

Item

ToString

Description

Gets or sets the value of a member of the **System.Web.Services.Description.ServiceDescriptionFormatExtensionCollection** . The zero-based index of the member in question.

List

Table

Add

[C#] public int Add(object extension);

[C++] public: int Add(Object* extension);

[VB] Public Function Add(ByVal extension As Object) As Integer

[JScript] public function Add(extension : Object) : int;

Description

Adds *extension* to the **System.Web.Services.Description.ServiceDescriptionFormatExtensionCollection** .

Return Value: Returns the index value of the member added. The **System.Web.Services.Description.ServiceDescriptionFormatExtension**, passed by reference, to be added to the **System.Web.Services.Description.ServiceDescriptionFormatExtensionCollection**.

Contains

[C#] public bool Contains(object extension);

[C++] public: bool Contains(Object* extension);

[VB] Public Function Contains(ByVal extension As Object) As Boolean

[JScript] public function Contains(extension : Object) : Boolean;

Description

Gets a value indicating whether *extension* is a member of the **System.Web.Services.Description.ServiceDescriptionFormatExtensionCollection** .

Return Value: **true** if the object is a member of the collection; otherwise, **false** .

The object that is to be checked whether it is a member of the **System.Web.Services.Description.ServiceDescriptionFormatExtensionCollection**.

CopyTo

[C#] public void CopyTo(object[] array, int index);

[C++] public: void CopyTo(Object* array __gc[], int index);

[VB] Public Sub CopyTo(ByVal array() As Object, ByVal index As Integer)

[JScript] public function CopyTo(array : Object[], index : int);

Description

Copies the elements in the

System.Web.Services.Description.ServiceDescriptionFormatExtensionCollect

ion into *array* , starting at *index* . The destination of the copy action The zero-based index at which to place the first copied element

Find

[C#] public object Find(Type type);

[C++] public: Object* Find(Type* type);

[VB] Public Function Find(ByVal type As Type) As Object

[JScript] public function Find(type : Type) : Object; This method searches the **System.Web.Services.Description.ServiceDescriptionFormatExtensionCollection** and returns the first member of the collection specified by the parameter passed in.

Description

This method searches the **System.Web.Services.Description.ServiceDescriptionFormatExtensionCollection** and returns the first instance of *type* that it discovers.

Return Value: Returns an object of the specified **System.Type** if its search was successful; **null** otherwise.

Note that this method searches the collection in index order, and returns only the *type* with the lowest-numbered index. A **System.Type** for which to search the collection.

Find

[C#] public XmlElement Find(string name, string ns);

[C++] public: XmlElement* Find(String* name, String* ns);

[VB] Public Function Find(ByVal name As String, ByVal ns As String) As XmlElement

[JScript] public function Find(name : String, ns : String) : XmlElement;

Description

This method searches the **System.Web.Services.Description.ServiceDescriptionFormatExtensionCollection** for a member with name *name* and namespace URI *ns* .

Return Value: Returns an **System.Xml.XmlElement** if the search is successful; otherwise **null** .

Note that this method searches the collection in index order, and will return the first **System.Xml.XmlElement** that meets the criteria of the two parameters. A string representing the name of the **System.Xml.XmlElement** to be found. A string representing the XML namespace URI of the **System.Xml.XmlElement** to be found.

FindAll

[C#] public object[] FindAll(Type type);

[C++] public: Object* FindAll(Type* type) __gc[];

[VB] Public Function FindAll(ByVal type As Type) As Object()

[JScript] public function FindAll(type : Type) : Object[]; This method searches the **System.Web.Services.Description.ServiceDescriptionFormatExtensionCollection** for all members of the collection specified by the parameter passed in.

Description

This method searches the **System.Web.Services.Description.ServiceDescriptionFormatExtensionCollection** and returns an array of object instances of **System.Type***type* that it discovers.

Return Value: Returns an array of **System.Object** instances.

The array returned will be empty if the search is unsuccessful. A **System.Type** for which to search the collection.

FindAll

```
[C#] public XmlElement[] FindAll(string name, string ns);
[C++] public: XmlElement* FindAll(String* name, String* ns) [];
[VB] Public Function FindAll(ByVal name As String, ByVal ns As String) As
XmlElement()
[JScript] public function FindAll(name : String, ns : String) : XmlElement[];
```

Description

This method searches the **System.Web.Services.Description.ServiceDescriptionFormatExtensionCollection** for members with name *name* and namespace URI *ns* .

Return Value: Returns an array of **System.Xml.XmlElement** objects.

The array returned will be empty if the search is unsuccessful. A string representing the name attribute of the **System.Xml.XmlElement** objects to be found. A string representing the XML namespace URI attribute of the **System.Xml.XmlElement** objects to be found.

IndexOf

```
[C#] public int IndexOf(object extension);
[C++] public: int IndexOf(Object* extension);
[VB] Public Function IndexOf(ByVal extension As Object) As Integer
[JScript] public function IndexOf(extension : Object) : int;
```

Description

Gets the zero-based index value of *extension* , the specified member of the **System.Web.Services.Description.ServiceDescriptionFormatExtensionCollection** .

Return Value: Returns a 32-bit signed integer. The object for which to return the index value.

Insert

```
[C#] public void Insert(int index, object extension);
[C++] public: void Insert(int index, Object* extension);
[VB] Public Sub Insert(ByVal index As Integer, ByVal extension As Object)
[JScript] public function Insert(index : int, extension : Object);
```

Description

Adds *extension* to the **System.Web.Services.Description.ServiceDescriptionFormatExtensionCollection** at the specified *index* . The zero-based index at which to add the new member. The object to add to the

System.Web.Services.Description.ServiceDescriptionFormatExtensionCollection.

IsHandled

[C#] public bool IsHandled(object item);

[C++] public: bool IsHandled(Object* item);

[VB] Public Function IsHandled(ByVal item As Object) As Boolean

[JScript] public function IsHandled(item : Object) : Boolean;

Description

Gets a value indicating whether *item* is handled.

Return Value: **true** if *item* is handled; otherwise **false** . An object, either of type **System.Xml.XmlElement** or **System.Web.Services.Description.ServiceDescriptionFormatExtension.**

IsRequired

[C#] public bool IsRequired(object item);

[C++] public: bool IsRequired(Object* item);

[VB] Public Function IsRequired(ByVal item As Object) As Boolean

[JScript] public function IsRequired(item : Object) : Boolean;

Description

Gets a value indicating whether *item* is required.

Return Value: **true** if *item* is required; otherwise **false** . An object, either of type

System.Xml.XmlElement or **System.Web.Services.Description.ServiceDescriptionFormatExtension**.

OnValidate

[C#] protected override void OnValidate(object value);

[C++] protected: void OnValidate(Object* value);

[VB] Overrides Protected Sub OnValidate(ByVal value As Object)

[JScript] protected override function OnValidate(value : Object);

Description

Performs a check on the **System.Type** of *value* when validating it.

This method overrides the base method in order to determine that *value* is one of the two valid classes, **System.Xml.XmlElement** or **System.Web.Services.Description.ServiceDescriptionFormatExtension** . The object to be validated.

Remove

[C#] public void Remove(object extension);

[C++] public: void Remove(Object* extension);

[VB] Public Sub Remove(ByVal extension As Object)

[JScript] public function Remove(extension : Object);

Description

Removes the first occurrence of *extension* from the **System.Web.Services.Description.ServiceDescriptionFormatExtensionCollect**

ion . The object to be removed from the **System.Web.Services.Description.ServiceDescriptionFormatExtensionCollection**.

SetParent

[C#] protected override void SetParent(object value, object parent);

[C++] protected: void SetParent(Object* value, Object* parent);

[VB] Overrides Protected Sub SetParent(ByVal value As Object, ByVal parent As Object)

[JScript] protected override function SetParent(value : Object, parent : Object);

Description

Sets the parent object of a member of the **System.Web.Services.Description.ServiceDescriptionFormatExtensionCollection** .

This method overrides the base method in order to determine that *value* is of type **System.Web.Services.Description.ServiceDescriptionFormatExtension** . A child object for which to set the parent. The object to be set as parent.

ServiceDescriptionImporter class (System.Web.Services.Description)

ToString

Description

This class exposes methods for generating client proxy classes for Web Services.

ServiceDescriptionImporter

Example Syntax:

ToString

[C#] public ServiceDescriptionImporter();

[C++] public: ServiceDescriptionImporter();

[VB] Public Sub New()

[JScript] public function ServiceDescriptionImporter();

Description

Initializes a new instance of the **System.Web.Services.Description.ServiceDescriptionImporter** class.

ProtocolName

ToString

[C#] public string ProtocolName {get; set;}

[C++] public: __property String* get_ProtocolName();public: __property void set_ProtocolName(String*);

[VB] Public Property ProtocolName As String

[JScript] public function get ProtocolName() : String;public function set ProtocolName(String);

Description

Gets or sets the name of the protocol to be imported.

Schemas

ToString

[C#] public XmlSchemas Schemas {get;}

[C++] public: __property XmlSchemas* get_Schemas();

[VB] Public ReadOnly Property Schemas As XmlSchemas

[JScript] public function get Schemas() : XmlSchemas;

Description

Gets the **System.Xml.Serialization.XmlSchemas** Collection contained in the Web Service to be imported. This property is read-only.

ServiceDescriptions

ToString

[C#] public ServiceDescriptionCollection ServiceDescriptions {get;}

[C++] public: __property ServiceDescriptionCollection* get_ServiceDescriptions();

[VB] Public ReadOnly Property ServiceDescriptions As ServiceDescriptionCollection

[JScript] public function get ServiceDescriptions() : ServiceDescriptionCollection;

Description

Gets the **System.Web.Services.Description.ServiceDescriptionCollection** being imported by the **ServiceDescriptionImporter** .

As with any collection that forms a read-only property, members can be added to the collection, removed from the collection, or modified using the methods exposed by the collection. However, it is recommended that the developer use the **System.Web.Services.Description.ServiceDescriptionImporter.AddServiceDescription(System.Web.Services.Description.ServiceDescription,System.String, System.String)** method to add members to this collection.

Style

ToString

[C#] public ServiceDescriptionImportStyle Style {get; set;}

[C++] public: __property ServiceDescriptionImportStyle get_Style();public: __property void set_Style(ServiceDescriptionImportStyle);

[VB] Public Property Style As ServiceDescriptionImportStyle

[JScript] public function get Style() : ServiceDescriptionImportStyle;public function set Style(ServiceDescriptionImportStyle);

Description

Gets or sets the **System.Web.Services.Description.ServiceDescriptionImportStyle** associated with the **System.Web.Services.Description.ServiceDescriptionImporter** instance.

AddServiceDescription

[C#] public void AddServiceDescription(ServiceDescription serviceDescription, string appSettingUrlKey, string appSettingBaseUrl);

[C++] public: void AddServiceDescription(ServiceDescription*

serviceDescription, String* appSettingUrlKey, String* appSettingBaseUrl);

[VB] Public Sub AddServiceDescription(ByVal serviceDescription As ServiceDescription, ByVal appSettingUrlKey As String, ByVal appSettingBaseUrl As String)

[JScript] public function AddServiceDescription(serviceDescription : ServiceDescription, appSettingUrlKey : String, appSettingBaseUrl : String);

Description

Adds the specified **System.Web.Services.Description.ServiceDescription** to the **System.Web.Services.Description.ServiceDescriptionImporter.ServiceDescriptions** collection. It also sets the **System.Web.Services.Description.ServiceDescription.AppSettingUrlKey** and **System.Web.Services.Description.ServiceDescription.AppSettingBaseUrl** properties of the **System.Web.Services.Description.ServiceDescription** to be added.

The two string parameters, *appSettingUrlKey* and *appSettingBaseUrl* , specify how the **Url** property of the Web Service proxy to be generated from the imported *serviceDescription* should be constructed. The **System.Web.Services.Description.ServiceDescription** instance to add to the collection Sets the initial value of the **Url** property of the proxy class to be generated from the instance represented by the *serviceDescription* parameter. Specifies that it should be generated from the web.config file's section. Sets the initial value of the **Url** property of the proxy class to be generated from the instance represented by the *serviceDescription* parameter. Specifies that it should be constructed from a combination of the value of this parameter and the URL specified by the **location** attribute in the WSDL document.

Import

[C#] public ServiceDescriptionImportWarnings Import(CodeNamespace codeNamespace, CodeCompileUnit codeCompileUnit);

[C++] public: ServiceDescriptionImportWarnings Import(CodeNamespace* codeNamespace, CodeCompileUnit* codeCompileUnit);

[VB] Public Function Import(ByVal codeNamespace As CodeNamespace, ByVal codeCompileUnit As CodeCompileUnit) As ServiceDescriptionImportWarnings

[JScript] public function Import(codeNamespace : CodeNamespace, codeCompileUnit : CodeCompileUnit) : ServiceDescriptionImportWarnings;

Description

Imports a **System.Web.Services.Description.ServiceDescription** from the specified namespace, and generates code for client proxy classes.

Return Value: One of the **System.Web.Services.Description.ServiceDescriptionImportWarnings** values.

This method actually does the work of importing **System.Web.Services.Description.ServiceDescriptions** and **System.Xml.Schema.XmlSchemas** . A **System.CodeDom.CodeNamespace** instance that determines the namespace of the **System.Web.Services.Description.ServiceDescription** to be imported. A **System.CodeDom.CodeCompileUnit** instance that will add references to the appropriate assemblies.

ServiceDescriptionImportStyle enumeration (System.Web.Services.Description)

ToString

Description

Specifies whether the Import is made to the server or the client machine.

ToString

[C#] public const ServiceDescriptionImportStyle Client;

[C++] public: const ServiceDescriptionImportStyle Client;

[VB] Public Const Client As ServiceDescriptionImportStyle

[JScript] public var Client : ServiceDescriptionImportStyle;

Description

Specifies that the Import should be made to the client machine.

ToString

[C#] public const ServiceDescriptionImportStyle Server;

[C++] public: const ServiceDescriptionImportStyle Server;

[VB] Public Const Server As ServiceDescriptionImportStyle

[JScript] public var Server : ServiceDescriptionImportStyle;

Description

Specifies that the Import should be made to the server.

ServiceDescriptionImportWarnings enumeration (System.Web.Services.Description)

ToString

Description

Specifies the type of warnings produced by **System.Web.Services.Description.ServiceDescriptionImporter.Import(System.CodeDom.CodeNamespace,System.CodeDom.CodeCompileUnit)** .

ToString

[C#] public const ServiceDescriptionImportWarnings NoCodeGenerated;

[C++] public: const ServiceDescriptionImportWarnings NoCodeGenerated;

[VB] Public Const NoCodeGenerated As ServiceDescriptionImportWarnings

[JScript] public var NoCodeGenerated : ServiceDescriptionImportWarnings;

Description

Specifies that no proxy class was generated by the **System.Web.Services.Description.ServiceDescriptionImporter.Import(System.CodeDom.CodeNamespace,System.CodeDom.CodeCompileUnit)** method.

ToString

[C#] public const ServiceDescriptionImportWarnings NoMethodsGenerated;

[C++] public: const ServiceDescriptionImportWarnings NoMethodsGenerated;

[VB] Public Const NoMethodsGenerated As ServiceDescriptionImportWarnings

[JScript] public var NoMethodsGenerated : ServiceDescriptionImportWarnings;

Description

Specifies that the proxy class generated by the **System.Web.Services.Description.ServiceDescriptionImporter.Import(System.CodeDom.CodeNamespace,System.CodeDom.CodeCompileUnit)** method includes no methods.

ToString

[C#] public const ServiceDescriptionImportWarnings OptionalExtensionsIgnored;

[C++] public: const ServiceDescriptionImportWarnings OptionalExtensionsIgnored;

[VB] Public Const OptionalExtensionsIgnored As ServiceDescriptionImportWarnings

[JScript] public var OptionalExtensionsIgnored : ServiceDescriptionImportWarnings;

Description

Specifies that at least one optional **System.Web.Services.Description.ServiceDescriptionFormatExtension** for the **System.Web.Services.Description.ServiceDescription** to be imported has been ignored.

ToString

[C#] public const ServiceDescriptionImportWarnings RequiredExtensionsIgnored;

[C++] public: const ServiceDescriptionImportWarnings RequiredExtensionsIgnored;

[VB] Public Const RequiredExtensionsIgnored As ServiceDescriptionImportWarnings

[JScript] public var RequiredExtensionsIgnored : ServiceDescriptionImportWarnings;

Description

Specifies that at least one necessary **System.Web.Services.Description.ServiceDescriptionFormatExtension** for the **System.Web.Services.Description.ServiceDescription** to be imported has been ignored.

ToString

[C#] public const ServiceDescriptionImportWarnings UnsupportedBindingsIgnored;

[C++] public: const ServiceDescriptionImportWarnings UnsupportedBindingsIgnored;

[VB] Public Const UnsupportedBindingsIgnored As ServiceDescriptionImportWarnings

[JScript] public var UnsupportedBindingsIgnored : ServiceDescriptionImportWarnings;

Description

Specifies that at least one **System.Web.Services.Description.Binding** for the **System.Web.Services.Description.ServiceDescription** to be imported is of an unsupported type and has been ignored.

ToString

[C#] public const ServiceDescriptionImportWarnings UnsupportedOperationsIgnored;

[C++] public: const ServiceDescriptionImportWarnings UnsupportedOperationsIgnored;

[VB] Public Const UnsupportedOperationsIgnored As ServiceDescriptionImportWarnings

[JScript] public var UnsupportedOperationsIgnored : ServiceDescriptionImportWarnings;

Description

Specifies that at least one **System.Web.Services.Description.Operation** for the **System.Web.Services.Description.ServiceDescription** to be imported is of an unsupported type and has been ignored.

ServiceDescriptionReflector class (System.Web.Services.Description)

ToString

Description

ServiceDescriptionReflector

Example Syntax:

ToString

```
[C#] public ServiceDescriptionReflector();
[C++] public: ServiceDescriptionReflector();
[VB] Public Sub New()
[JScript] public function ServiceDescriptionReflector();
```

Description

Schemas

ToString

```
[C#] public XmlSchemas Schemas {get;}
[C++] public: __property XmlSchemas* get_Schemas();
[VB] Public ReadOnly Property Schemas As XmlSchemas
[JScript] public function get Schemas() : XmlSchemas;
```

Description

ServiceDescriptions

ToString

```
[C#] public ServiceDescriptionCollection ServiceDescriptions {get;}
[C++] public: __property ServiceDescriptionCollection*
```

get_ServiceDescriptions();

[VB] Public ReadOnly Property ServiceDescriptions As ServiceDescriptionCollection

[JScript] public function get ServiceDescriptions() : ServiceDescriptionCollection;

Description

Reflect

[C#] public void Reflect(Type type, string url);

[C++] public: void Reflect(Type* type, String* url);

[VB] Public Sub Reflect(ByVal type As Type, ByVal url As String)

[JScript] public function Reflect(type : Type, url : String);

Description

SoapAddressBinding class (System.Web.Services.Description)

ToString

Description

Represents an extensibility element added to a **System.Web.Services.Description.Port** within a Web Service. This class cannot be inherited.

SoapAddressBinding

Example Syntax:

ToString

[C#] public SoapAddressBinding();

[C++] public: SoapAddressBinding();

[VB] Public Sub New()

[JScript] public function SoapAddressBinding();

Handled

Location

ToString

Description

Gets or sets a value representing the URI for the **System.Web.Services.Description.Port** to which the **SoapAddressBinding** applies.

Parent

Required

SoapBinding class (System.Web.Services.Description)

ToString

Description

Represents an extension added to a **System.Web.Services.Description.Binding** within a Web Service. It specifies that the data transmission will use SOAP (Simple Object Access Protocol). This class cannot be inherited.

ToString

```
[C#] public const string HttpTransport;
[C++] public: const String* HttpTransport;
[VB] Public Const HttpTransport As String
[JScript] public var HttpTransport : String;
```

Description

ToString

```
[C#] public const string Namespace;
[C++] public: const String* Namespace;
[VB] Public Const Namespace As String
[JScript] public var Namespace : String;
```

Description

Gets the URI (http://schemas.xmlsoap.org/wsdl/soap/) for the XML namespace of the **SoapBinding** class. This field is constant.

SoapBinding

Example Syntax:

ToString

[C#] public SoapBinding();

[C++] public: SoapBinding();

[VB] Public Sub New()

[JScript] public function SoapBinding();

Handled

Parent

Required

Style

ToString

Description

Specifies the type of SOAP binding used by the **SoapBinding** instance.

Transport

ToString

[C#] public string Transport {get; set;}

[C++] public: __property String* get_Transport();public: __property void set_Transport(String*);

[VB] Public Property Transport As String

[JScript] public function get Transport() : String;public function set Transport(String);

Description

Gets or sets the URI for the specification for HTTP transmission of SOAP data.

In general usage, this required property value will be the same as that of the **System.Web.Services.Description.SoapBinding.HttpTransport** field. However, this property value may be any URI for data-transmission specifications, such as SMTP, FTP, etc.

SoapBindingStyle enumeration (System.Web.Services.Description)

ToString

Description

Specifies the type of action that occurs in the Web Service at the level to which this enumeration is applied.

This enumeration allows the user to specify whether the message being transmitted is procedure- or document-oriented. Procedure-oriented messages contain parameters and return values, while document-oriented messages contain documents.

ToString

```
[C#] public const SoapBindingStyle Default;
[C++] public: const SoapBindingStyle Default;
[VB] Public Const Default As SoapBindingStyle
[JScript] public var Default : SoapBindingStyle;
```

Description

This value specifies that the action should use the default value appropriate to that level of the WSDL file.

ToString

[C#] public const SoapBindingStyle Document;
[C++] public: const SoapBindingStyle Document;
[VB] Public Const Document As SoapBindingStyle
[JScript] public var Document : SoapBindingStyle;

Description

Specifies that the message to be transmitted contains documents.

ToString

[C#] public const SoapBindingStyle Rpc;
[C++] public: const SoapBindingStyle Rpc;
[VB] Public Const Rpc As SoapBindingStyle
[JScript] public var Rpc : SoapBindingStyle;

Description

Specifies that the message to be transmitted contains a call to a procedure. RPC is an acronym for "remote procedure call."

SoapBindingUse enumeration (System.Web.Services.Description)

ToString

Description

Specifies whether the message parts are encoded using given rules, or define a concrete schema for the message.

ToString

[C#] public const SoapBindingUse Default;

[C++] public: const SoapBindingUse Default;

[VB] Public Const Default As SoapBindingUse

[JScript] public var Default : SoapBindingUse;

Description

Specifies an empty string ("") value for the corresponding XML attribute.

ToString

[C#] public const SoapBindingUse Encoded;

[C++] public: const SoapBindingUse Encoded;

[VB] Public Const Encoded As SoapBindingUse

[JScript] public var Encoded : SoapBindingUse;

Description

Specifies that the message parts are encoded using given encoding rules.

ToString

[C#] public const SoapBindingUse Literal;

[C++] public: const SoapBindingUse Literal;

[VB] Public Const Literal As SoapBindingUse

[JScript] public var Literal : SoapBindingUse;

Description

Specifies that the message parts represent a concrete schema.

SoapBodyBinding class (System.Web.Services.Description)

ToString

Description

Represents an extensibility element added to an **System.Web.Services.Description.InputBinding** or an **System.Web.Services.Description.OutputBinding** . It specifies how messages, either abstract type definitions or concrete schema definitions, appear within the SOAP body element of the transmission. This class cannot be inherited.

SoapBodyBinding

Example Syntax:

ToString

[C#] public SoapBodyBinding();

[C++] public: SoapBodyBinding();

[VB] Public Sub New()

[JScript] public function SoapBodyBinding();

Encoding

ToString

[C#] public string Encoding {get; set;}

[C++] public: __property String* get_Encoding();public: __property void set_Encoding(String*);

[VB] Public Property Encoding As String

[JScript] public function get Encoding() : String;public function set Encoding(String);

Description

Supplies a list of space-delimited URIs representing the encoding style (or styles) to be used to encode the messages within the SOAP body.

The value of this property should be set only if the value of the **System.Web.Services.Description.SoapBodyBinding.Use** property is **Encoded** .

Handled

Namespace

ToString

Description

Get or sets the URI for encoding of content not specifically defined by the **System.Web.Services.Description.SoapBodyBinding.Encoding** property.

This property will return an empty string ("") if the property value has not been set. The value should only be set if the value of the **System.Web.Services.Description.SoapBodyBinding.Use** property is **Encoded** .

Parent

Parts

ToString

Description

Indicates which parts of the transmitted message appear somewhere within the SOAP body portion of that transmission.

Some parts of the transmitted message can appear in portions other than the SOAP body, such as when SOAP is used with a **System.Web.Services.Description.MimeMultipartRelatedBinding** .

PartsString

ToString

[C#] public string PartsString {get; set;}

[C++] public: __property String* get_PartsString();public: __property void set_PartsString(String*);

[VB] Public Property PartsString As String

[JScript] public function get PartsString() : String;public function set PartsString(String);

Description

Indicates which parts of the transmitted message appear somewhere within the SOAP body portion of that transmission.

Some parts of the transmitted message can appear in portions other than the SOAP body, such as when SOAP is used with a **System.Web.Services.Description.MimeMultipartRelatedBinding** .

Required

Use

ToString

Description

Indicates whether the message parts are encoded based on specified encoding rules, or define the concrete schema of the message.

The **System.Web.Services.Description.SoapBodyBinding.Namespace** and **System.Web.Services.Description.SoapBodyBinding.Encoding** properties depend on the value of this property. Their values should be set only if the value of this property is **Encoded** .

SoapExtensionImporter class (System.Web.Services.Description)

ToString

Description

SoapExtensionImporter

Example Syntax:

ToString

[C#] protected SoapExtensionImporter();

[C++] protected: SoapExtensionImporter();

[VB] Protected Sub New()

[JScript] protected function SoapExtensionImporter();

ImportContext

ToString

[C#] public SoapProtocolImporter ImportContext {get; set;}

[C++] public: __property SoapProtocolImporter* get_ImportContext();public: __property void set_ImportContext(SoapProtocolImporter*);

[VB] Public Property ImportContext As SoapProtocolImporter

[JScript] public function get ImportContext() : SoapProtocolImporter;public function set ImportContext(SoapProtocolImporter);

Description

ImportMethod

[C#] public abstract void ImportMethod(CodeAttributeDeclarationCollection metadata);

[C++] public: virtual void ImportMethod(CodeAttributeDeclarationCollection* metadata) = 0;

[VB] MustOverride Public Sub ImportMethod(ByVal metadata As

CodeAttributeDeclarationCollection)

[JScript] public abstract function ImportMethod(metadata : CodeAttributeDeclarationCollection);

Description

SoapExtensionReflector class (System.Web.Services.Description)

ToString

Description

SoapExtensionReflector

Example Syntax:

ToString

[C#] protected SoapExtensionReflector();

[C++] protected: SoapExtensionReflector();

[VB] Protected Sub New()

[JScript] protected function SoapExtensionReflector();

ReflectionContext

ToString

[C#] public ProtocolReflector ReflectionContext {get; set;}

[C++] public: __property ProtocolReflector* get_ReflectionContext();public:

```
__property void set_ReflectionContext(ProtocolReflector*);
[VB] Public Property ReflectionContext As ProtocolReflector
[JScript] public function get ReflectionContext() : ProtocolReflector;public
function set ReflectionContext(ProtocolReflector);
```

Description

ReflectMethod

```
[C#] public abstract void ReflectMethod();
[C++] public: virtual void ReflectMethod() = 0;
[VB] MustOverride Public Sub ReflectMethod()
[JScript] public abstract function ReflectMethod();
```

Description

SoapFaultBinding class (System.Web.Services.Description)

ToString

Description

Represents an extensibility element added to a **System.Web.Services.Description.FaultBinding** within a Web Service. It specifies the contents of any SOAP fault message returned. This class cannot be inherited.

SoapFaultBinding

Example Syntax:

ToString

```
[C#] public SoapFaultBinding();
[C++] public: SoapFaultBinding();
[VB] Public Sub New()
[JScript] public function SoapFaultBinding();
```

Encoding

ToString

```
[C#] public string Encoding {get; set;}
[C++] public: __property String* get_Encoding();public: __property void
set_Encoding(String*);
[VB] Public Property Encoding As String
[JScript] public function get Encoding() : String;public function set
Encoding(String);
```

Description

Gets or sets a URI representing the encoding style used to encode the SOAP fault message.

The value of this property should be set only if the value of the **System.Web.Services.Description.SoapFaultBinding.Use** property is **Encoded** .

Handled

Namespace

ToString

Description

Get or sets the URI for encoding of content not specifically defined by the **System.Web.Services.Description.SoapFaultBinding.Encoding** property.

This property will return an empty string ("") if the property value has not been set. The value should only be set if the value of the **System.Web.Services.Description.SoapFaultBinding.Use** property is **Encoded** .

Parent

Required

Use

ToString

Description

Specifies whether the fault message is encoded using encoding rules specified by the **System.Web.Services.Description.SoapFaultBinding.Encoding** property, or is encapsulated within a concrete schema.

SoapHeaderBinding class (System.Web.Services.Description)

ToString

Description

Represents an extensibility element added to an **System.Web.Services.Description.InputBinding** or an **System.Web.Services.Description.OutputBinding** within a Web Service. This class cannot be inherited.

SoapHeaderBinding

Example Syntax:

ToString

```
[C#] public SoapHeaderBinding();
[C++] public: SoapHeaderBinding();
[VB] Public Sub New()
[JScript] public function SoapHeaderBinding();
```

Encoding

ToString

```
[C#] public string Encoding {get; set;}
[C++] public: __property String* get_Encoding();public: __property void
set_Encoding(String*);
[VB] Public Property Encoding As String
[JScript] public function get Encoding() : String;public function set
Encoding(String);
```

Description

Gets or sets a URI representing the encoding style used to encode the SOAP header.

The value of this property should be set only if the value of the **System.Web.Services.Description.SoapHeaderBinding.Use** property is **Encoded** .

Handled

MapToProperty

ToString

Description

Message

ToString

[C#] public XmlQualifiedName Message {get; set;}

[C++] public: __property XmlQualifiedName* get_Message();public: __property void set_Message(XmlQualifiedName*);

[VB] Public Property Message As XmlQualifiedName

[JScript] public function get Message() : XmlQualifiedName;public function set Message(XmlQualifiedName);

Description

Gets or sets a value specifying the name of the **System.Web.Services.Description.Message** within the Web Service to which the **SoapHeaderBinding** applies.

The default value of this property is an empty string ("").

Namespace

ToString

[C#] public string Namespace {get; set;}

[C++] public: __property String* get_Namespace();public: __property void set_Namespace(String*);

[VB] Public Property Namespace As String

[JScript] public function get Namespace() : String;public function set Namespace(String);

Description

Get or sets the URI for encoding of content not specifically defined by the **System.Web.Services.Description.SoapHeaderBinding.Encoding** property.

This property will return an empty string ("") if the property value has not been set. The value should only be set if the value of the **System.Web.Services.Description.SoapHeaderBinding.Use** property is **Encoded** .

Parent

Part

ToString

Description

Gets or sets a value indicating which **System.Web.Services.Description.MessagePart** within the Web Service the **SoapHeaderBinding** applies to.

Required

Use

ToString

Description

Specifies whether the header is encoded using encoding rules specified by the **System.Web.Services.Description.SoapHeaderBinding.Encoding** property, or is encapsulated within a concrete schema.

SoapHeaderFaultBinding class (System.Web.Services.Description)

ToString

Description

Represents an extensibility element added to an **System.Web.Services.Description.InputBinding** or an **System.Web.Services.Description.OutputBinding** within the WebService. It specifies the SOAP header types used to transmit error information wihtin the SOAP header. This class cannot be inherited.

SoapHeaderFaultBinding

Example Syntax:

ToString

[C#] public SoapHeaderFaultBinding();

[C++] public: SoapHeaderFaultBinding();

[VB] Public Sub New()

[JScript] public function SoapHeaderFaultBinding();

Encoding

ToString

[C#] public string Encoding {get; set;}

[C++] public: __property String* get_Encoding();public: __property void set_Encoding(String*);

[VB] Public Property Encoding As String

[JScript] public function get Encoding() : String;public function set Encoding(String);

Description

Gets or sets a URI representing the encoding style used to encode the error message for the SOAP header.

The value of this property should be set only if the value of the **System.Web.Services.Description.SoapHeaderFaultBinding.Use** property is **Encoded** .

Handled

Message

ToString

Description

Gets or sets a value specifying the name of the **System.Web.Services.Description.Message** within the Web Service to which the **SoapHeaderFaultBinding** applies.

The default value of this property is an empty string ("").

Namespace

ToString

[C#] public string Namespace {get; set;}

[C++] public: __property String* get_Namespace();public: __property void set_Namespace(String*);

[VB] Public Property Namespace As String

[JScript] public function get Namespace() : String;public function set Namespace(String);

Description

Get or sets the URI for encoding of content not specifically defined by the **System.Web.Services.Description.SoapHeaderFaultBinding.Encoding** property.

This property will return an empty string ("") if the property value has not been set. The value should only be set if the value of the **System.Web.Services.Description.SoapHeaderBinding.Use** property is **Encoded** .

Parent

Part

ToString

Description

Gets or sets a value indicating which **System.Web.Services.Description.MessagePart** within the Web Service the **SoapHeaderFaultBinding** applies to.

Required

Use

ToString

Description

Specifies whether the header is encoded using encoding rules specified by the **System.Web.Services.Description.SoapHeaderBinding.Encoding** property, or is encapsulated within a concrete schema.

SoapOperationBinding class (System.Web.Services.Description)

ToString

Description

Represents an extension added to an **System.Web.Services.Description.OperationBinding** within a Web Service.

Specifies that the message transmission will be in SOAP format. This class cannot be inherited.

SoapOperationBinding

Example Syntax:

ToString

[C#] public SoapOperationBinding();

[C++] public: SoapOperationBinding();

[VB] Public Sub New()

[JScript] public function SoapOperationBinding();

Handled

Parent

Required

SoapAction

ToString

Description

Specifies the URI for the SOAP header.

This property is required for HTTP protocol binding of SOAP.

Style

ToString

[C#] public SoapBindingStyle Style {get; set;}

[C++] public: __property SoapBindingStyle get_Style();public: __property void set_Style(SoapBindingStyle);

[VB] Public Property Style As SoapBindingStyle

[JScript] public function get Style() : SoapBindingStyle;public function set Style(SoapBindingStyle);

Description

One of the **System.Web.Services.Description.SoapBindingStyle** values. The default is **Document** .

SoapProtocolImporter class (System.Web.Services.Description)

ToString

Description

SoapProtocolImporter

Example Syntax:

ToString

[C#] public SoapProtocolImporter();

[C++] public: SoapProtocolImporter();

[VB] Public Sub New()

[JScript] public function SoapProtocolImporter();

AbstractSchemas

Binding

ClassName

ClassNames

CodeNamespace

CodeTypeDeclaration

ConcreteSchemas

InputMessage

MethodName

Operation

OperationBinding

OutputMessage

Port

PortType

ProtocolName

ToString

Description

Schemas

Service

ServiceDescriptions

SoapBinding

ToString

Description

SoapExporter

ToString

[C#] public SoapCodeExporter SoapExporter {get;}

[C++] public: __property SoapCodeExporter* get_SoapExporter();

[VB] Public ReadOnly Property SoapExporter As SoapCodeExporter

[JScript] public function get SoapExporter() : SoapCodeExporter;

Description

SoapImporter

ToString

[C#] public SoapSchemaImporter SoapImporter {get;}

[C++] public: __property SoapSchemaImporter* get_SoapImporter();

[VB] Public ReadOnly Property SoapImporter As SoapSchemaImporter

[JScript] public function get SoapImporter() : SoapSchemaImporter;

Description

Style

Warnings

XmlExporter

ToString

Description

XmlImporter

ToString

[C#] public XmlSchemaImporter XmlImporter {get;}

[C++] public: __property XmlSchemaImporter* get_XmlImporter();

[VB] Public ReadOnly Property XmlImporter As XmlSchemaImporter

[JScript] public function get XmlImporter() : XmlSchemaImporter;

Description

BeginClass

[C#] protected override CodeTypeDeclaration BeginClass();

[C++] protected: CodeTypeDeclaration* BeginClass();

[VB] Overrides Protected Function BeginClass() As CodeTypeDeclaration

[JScript] protected override function BeginClass() : CodeTypeDeclaration;

Description

BeginNamespace

[C#] protected override void BeginNamespace();

[C++] protected: void BeginNamespace();

[VB] Overrides Protected Sub BeginNamespace()

[JScript] protected override function BeginNamespace();

Description

EndClass

[C#] protected override void EndClass();

[C++] protected: void EndClass();

[VB] Overrides Protected Sub EndClass()

[JScript] protected override function EndClass();

Description

EndNamespace

[C#] protected override void EndNamespace();

[C++] protected: void EndNamespace();

[VB] Overrides Protected Sub EndNamespace()

[JScript] protected override function EndNamespace();

Description

GenerateMethod

```
[C#] protected override CodeMemberMethod GenerateMethod();
[C++] protected: CodeMemberMethod* GenerateMethod();
[VB] Overrides Protected Function GenerateMethod() As CodeMemberMethod
[JScript] protected override function GenerateMethod() : CodeMemberMethod;
```

Description

IsBindingSupported

```
[C#] protected override bool IsBindingSupported();
[C++] protected: bool IsBindingSupported();
[VB] Overrides Protected Function IsBindingSupported() As Boolean
[JScript] protected override function IsBindingSupported() : Boolean;
```

Description

IsOperationFlowSupported

```
[C#] protected override bool IsOperationFlowSupported(OperationFlow flow);
[C++] protected: bool IsOperationFlowSupported(OperationFlow flow);
[VB] Overrides Protected Function IsOperationFlowSupported(ByVal flow As
OperationFlow) As Boolean
```

[JScript] protected override function IsOperationFlowSupported(flow : OperationFlow) : Boolean;

Description

SoapTransportImporter class (System.Web.Services.Description)

UnsupportedOperationWarning

Description

SoapTransportImporter

Example Syntax:

UnsupportedOperationWarning

[C#] protected SoapTransportImporter();

[C++] protected: SoapTransportImporter();

[VB] Protected Sub New()

[JScript] protected function SoapTransportImporter();

ImportContext

UnsupportedOperationWarning

[C#] public SoapProtocolImporter ImportContext {get; set;}

[C++] public: __property SoapProtocolImporter* get_ImportContext();public: __property void set_ImportContext(SoapProtocolImporter*);

[VB] Public Property ImportContext As SoapProtocolImporter

[JScript] public function get ImportContext() : SoapProtocolImporter;public function set ImportContext(SoapProtocolImporter);

Description

ImportClass

[C#] public abstract void ImportClass();

[C++] public: virtual void ImportClass() = 0;

[VB] MustOverride Public Sub ImportClass()

[JScript] public abstract function ImportClass();

Description

IsSupportedTransport

[C#] public abstract bool IsSupportedTransport(string transport);

[C++] public: virtual bool IsSupportedTransport(String* transport) = 0;

[VB] MustOverride Public Function IsSupportedTransport(ByVal transport As String) As Boolean

[JScript] public abstract function IsSupportedTransport(transport : String) : Boolean;

Description

Types class (System.Web.Services.Description)

ToString

Description

Derived from the **System.Web.Services.Description.DocumentableItem** class, this class describes data type definitions relevant to exchanged messages. This class cannot be inherited.

This class is a container for datatype definitions for the Web Service. Note especially that this class does NOT represent a collection of **System.Type** objects, as its name might imply.

Types

Example Syntax:

ToString

```
[C#] public Types();
[C++] public: Types();
[VB] Public Sub New()
[JScript] public function Types();
```

Documentation

Extensions

ToString

Description

Gets the collection of ServiceDescriptionFormatExtension elements incuded in the Web Service. This property is read-only.

In the default implementation of the

System.Web.Services.Discovery

Description

The **System.Web.Services.Discovery** namespace consists of the classes that allows Web Service consumers to locate the available Web Services on a Web server through a process called Web Services Discovery.

ContractReference class (System.Web.Services:Discovery)

Description

Represents a reference in a discovery document to a Service Description.

Web Services discovery involves discovering the available Web Services given an URL. The URL usually points to a discovery document, which typically has a .disco file extension. Within a discovery document are references to information about the existance of Web Services. These references can refer to

Service Descriptions, XML Schema Definition language (XSD) schemas or other discovery documents. This class represents a reference to a Service Description.

[C#] public const string Namespace;

[C++] public: const String* Namespace;

[VB] Public Const Namespace As String

[JScript] public var Namespace : String;

Description

XML namespace for Service Description references in discovery documents.

Within a discovery document, a reference to a Service Description is contained within a **contractRef** XML element, which is a part of the XML namespace specified in the **System.Web.Services.Discovery.ContractReference.Namespace** constant.

Constructors:

ContractReference

Example Syntax:

[C#] public ContractReference();

[C++] public: ContractReference();

[VB] Public Sub New()

[JScript] public function ContractReference(); Initializes a new instance of the **System.Web.Services.Discovery.ContractReference** class.

Description

Initializes a new instance of the **System.Web.Services.Discovery.ContractReference** class using default values.

Use this constructor to create and initialize a new instance of the **System.Web.Services.Discovery.ContractReference** class using default values.

ContractReference

Example Syntax:

```
[C#] public ContractReference(string href);
[C++] public: ContractReference(String* href);
[VB] Public Sub New(ByVal href As String)
[JScript] public function ContractReference(href : String);
```

Description

Initializes a new instance of the **System.Web.Services.Discovery.ContractReference** class using the supplied reference to a Service Description.

Use this constructor to create and initialize a new instance of the **System.Web.Services.Discovery.ContractReference** class using the specified reference name. The URL for a Sevice Descritpion. Initializes the **System.Web.Services.Discovery.ContractReference.Ref** property value.

ContractReference

Example Syntax:

```
[C#] public ContractReference(string href, string docRef);
[C++] public: ContractReference(String* href, String* docRef);
[VB] Public Sub New(ByVal href As String, ByVal docRef As String)
[JScript] public function ContractReference(href : String, docRef : String);
```

Description

Initializes a new instance of the **System.Web.Services.Discovery.ContractReference** class using the supplied reference to a Service Description and a Web Service implementing the Service Description.

Use this constructor to create and initialize a new instance of the **System.Web.Services.Discovery.ContractReference** class using the specified reference name and docRef. The URL for a Service Description. Initializes the **System.Web.Services.Discovery.ContractReference.Ref** property value. The URL for a Web Service implementing the Service Description at *href*. Initializes the **System.Web.Services.Discovery.ContractReference.DocRef** property value.

Properties:

ClientProtocol

Contract

Description

Gets a **System.Web.Services.Description.ServiceDescription** object representing the Service Description.

DefaultFilename

```
[C#] public override string DefaultFilename {get;}
[C++] public: __property virtual String* get_DefaultFilename();
[VB] Overrides Public ReadOnly Property DefaultFilename As String
[JScript] public function get DefaultFilename() : String;
```

Description

Gets the name of the file to use by default when saving the referenced Service Description.

DocRef

```
[C#] public string DocRef {get; set;}
[C++] public: __property String* get_DocRef();public: __property void
set_DocRef(String*);
[VB] Public Property DocRef As String
[JScript] public function get DocRef() : String;public function set DocRef(String);
```

Description

Gets and sets the URL for a Web Service implementing the Service Description referenced in the **System.Web.Services.Discovery.ContractReference.Ref** property.

Within a discovery document, a reference to a Service Description is contained within a **contractRef** XML element. The **contractRef** XML element has two attributes described in the following table.

Ref

```
[C#] public string Ref {get; set;}
[C++] public: __property String* get_Ref();public: __property void
set_Ref(String*);
[VB] Public Property Ref As String
[JScript] public function get Ref() : String;public function set Ref(String);
```

Description

Gets or sets the URL to the referenced Service Description.

Within a discovery document, a reference to a Service Description is contained within a contractRef XML element. The contractRef XML element has two attributes described in the following table.

Url

```
[C#] public override string Url {get; set;}
[C++] public: __property virtual String* get_Url();public: __property virtual void
set_Url(String*);
[VB] Overrides Public Property Url As String
[JScript] public function get Url() : String;public function set Url(String);
```

Description

Gets or sets the URL for the referenced Service Description.

For the **System.Web.Services.Discovery.ContractReference** class, the **System.Web.Services.Discovery.ContractReference.Url** property returns the value of the **System.Web.Services.Discovery.ContractReference.Ref** property.

Methods:

ReadDocument

[C#] public override object ReadDocument(Stream stream);

[C++] public: Object* ReadDocument(Stream* stream);

[VB] Overrides Public Function ReadDocument(ByVal stream As Stream) As Object

[JScript] public override function ReadDocument(stream : Stream) : Object;

Description

Reads the Service Description from the passed **System.IO.Stream** and returns the Service Description.

Return Value: A **System.Web.Services.Description.ServiceDescription** containing the contents of the referenced Service Description. **System.IO.Stream** containing the Service Description.

Resolve

[C#] protected internal override void Resolve(string contentType, Stream stream);

[C++] protected public: void Resolve(String* contentType, Stream* stream);

[VB] Overrides Protected Friend Dim Sub Resolve(ByVal contentType As String, ByVal stream As Stream)

[JScript] package override function Resolve(contentType : String, stream :

Stream);

Description

Resolves whether the the referenced document is valid.

If the MIME type is **text/xml** and the contents of *stream* is a Service Description, then the contents of *stream* are added to the **System.Web.Services.Discovery.DiscoveryClientProtocol.References** and **System.Web.Services.Discovery.DiscoveryClientProtocol.Documents** properties of **System.Web.Services.Discovery.DiscoveryReference.ClientProtocol** . The MIME content type of *stream*. The **System.IO.Stream** containing the referenced document.

WriteDocument

[C#] public override void WriteDocument(object document, Stream stream);

[C++] public: void WriteDocument(Object* document, Stream* stream);

[VB] Overrides Public Sub WriteDocument(ByVal document As Object, ByVal stream As Stream)

[JScript] public override function WriteDocument(document : Object, stream : Stream);

Description

Writes the passed-in Service Description into the passed-in **System.IO.Stream** . The **System.Web.Services.Description.ServiceDescription** to write into *stream*. The **System.IO.Stream** into which the serialized **System.Web.Services.Description.ServiceDescription** is written.

ContractSearchPattern class (System.Web.Services.Discovery)

WriteDocument

Description

Represents a contract search pattern. This class cannot be inherited.

ContractSearchPattern

Example Syntax:

WriteDocument

[C#] public ContractSearchPattern();

[C++] public: ContractSearchPattern();

[VB] Public Sub New()

[JScript] public function ContractSearchPattern();

Pattern

WriteDocument

[C#] public override string Pattern {get;}

[C++] public: __property virtual String* get_Pattern();

[VB] Overrides Public ReadOnly Property Pattern As String

[JScript] public function get Pattern() : String;

Description

Overrides the base implementation to return the literal string, "*.asmx".

GetDiscoveryReference

[C#] public override DiscoveryReference GetDiscoveryReference(string filename);

[C++] public: DiscoveryReference* GetDiscoveryReference(String* filename);

[VB] Overrides Public Function GetDiscoveryReference(ByVal filename As String) As DiscoveryReference

[JScript] public override function GetDiscoveryReference(filename : String) : DiscoveryReference;

Description

Overrides the base implementation to create a **System.Web.Services.Discovery.ContractReference** object with the specified filename.

Return Value: A **System.Web.Services.Discovery.ContractReference** object with the specified filename. A string that represents a filename.

DiscoveryClientDocumentCollection class

(System.Web.Services.Discovery)

ToString

Description

Represents a collection of documents discovered during Web Services discovery that have been downloaded to the client. This class cannot be inherited.

The **System.Web.Services.Discovery.DiscoveryClientProtocol.Documents** property of **System.Web.Services.Discovery.DiscoveryClientProtocol** is of type **System.Web.Services.Discovery.DiscoveryClientDocumentCollection** .

DiscoveryClientDocumentCollection

Example Syntax:

ToString

[C#] public DiscoveryClientDocumentCollection();

[C++] public: DiscoveryClientDocumentCollection();

[VB] Public Sub New()

[JScript] public function DiscoveryClientDocumentCollection();

Count

Dictionary

InnerHashtable

Item

ToString

Description

Gets or sets a client discovery document object from the **System.Web.Services.Discovery.DiscoveryClientDocumentCollection** with the specified URL. The URL of the discovery document to get or set from the **System.Web.Services.Discovery.DiscoveryClientDocumentCollection**.

Keys

ToString

[C#] public ICollection Keys {get;}

[C++] public: __property ICollection* get_Keys();

[VB] Public ReadOnly Property Keys As ICollection

[JScript] public function get Keys() : ICollection;

Description

Gets an **System.Collections.ICollection** object with all of the keys in the **System.Web.Services.Discovery.DiscoveryClientDocumentCollection** .

Values

ToString

[C#] public ICollection Values {get;}

[C++] public: __property ICollection* get_Values();

[VB] Public ReadOnly Property Values As ICollection

[JScript] public function get Values() : ICollection;

Description

Gets an **System.Collections.ICollection** object with all of the values in the **System.Web.Services.Discovery.DiscoveryClientDocumentCollection** .

Add

[C#] public void Add(string url, object value);

[C++] public: void Add(String* url, Object* value);

```
[VB] Public Sub Add(ByVal url As String, ByVal value As Object)
[JScript] public function Add(url : String, value : Object);
```

Description

Adds an object with the specified URL to the **System.Web.Services.Discovery.DiscoveryClientDocumentCollection** . The URL for the document to add to the **System.Web.Services.Discovery.DiscoveryClientDocumentCollection** . A discovered document to add to the **System.Web.Services.Discovery.DiscoveryClientDocumentCollection** .

Contains

```
[C#] public bool Contains(string url);
[C++] public: bool Contains(String* url);
[VB] Public Function Contains(ByVal url As String) As Boolean
[JScript] public function Contains(url : String) : Boolean;
```

Description

Determines if the **System.Web.Services.Discovery.DiscoveryClientDocumentCollection** contains an object with the specified URL.

Return Value: **true** if the **System.Web.Services.Discovery.DiscoveryClientDocumentCollection** contains an object with the specified URL; otherwise, **false** . The URL for the document to locate within the **System.Web.Services.Discovery.DiscoveryClientDocumentCollection** .

Remove

[C#] public void Remove(string url);

[C++] public: void Remove(String* url);

[VB] Public Sub Remove(ByVal url As String)

[JScript] public function Remove(url : String);

Description

Removes an object with the specified URL from the **System.Web.Services.Discovery.DiscoveryClientDocumentCollection** . The URL for the discovered document to remove from the **System.Web.Services.Discovery.DiscoveryClientDocumentCollection**.

DiscoveryClientProtocol class (System.Web.Services.Discovery)

ToString

Description

Provides support for programmatically invoking Web Services discovery.

Web Service discovery is the process of locating, or discovering, one or more related documents that describe available Web Services. It is through Web Services discovery that Web Service clients learn about the available Web Services at a given URL and how to use them. Web Services discovery works from the premise that you have already obtained the URL to a discovery document, possibly through a directory service, such as http://uddi.microsoft.com, however, you do not have the details about the Web Services offered. Through Web Services discovery, you can discover the details about the Web Services listed in a **System.Web.Services.Discovery.DiscoveryDocument** at a specific URL.

DiscoveryClientProtocol

Example Syntax:

ToString

```
[C#] public DiscoveryClientProtocol();
[C++] public: DiscoveryClientProtocol();
[VB] Public Sub New()
[JScript] public function DiscoveryClientProtocol();
```

Description

Initializes a new instance of the **System.Web.Services.Discovery.DiscoveryClientProtocol** class.

AdditionalInformation

ToString

```
[C#] public IList AdditionalInformation {get;}
[C++] public: __property IList* get_AdditionalInformation();
[VB] Public ReadOnly Property AdditionalInformation As IList
[JScript] public function get AdditionalInformation() : IList;
```

Description

Gets information in addition to references found in the discovery document.

The **System.Web.Services.Discovery.DiscoveryClientProtocol.AdditionalInformation** property primarily contains SOAP bindings, represented by the **System.Web.Services.Discovery.SoapBinding** class, defined in the discovery document.

AllowAutoRedirect

ClientCertificates

ConnectionGroupName

Container

CookieContainer

Credentials

DesignMode

Documents

ToString

Description

Gets a collection of discovery documents.

The **System.Web.Services.Discovery.DiscoveryClientProtocol.Documents** collection is populated during invocations to the **System.Web.Services.Discovery.DiscoveryClientProtocol.Discover(System.Str**

ing) , **System.Web.Services.Discovery.DiscoveryClientProtocol.DiscoverAny(System.String)** , **System.Web.Services.Discovery.DiscoveryClientProtocol.ResolveAll** and **System.Web.Services.Discovery.DiscoveryClientProtocol.ResolveOneLevel** methods. During invocations to the **System.Web.Services.Discovery.DiscoveryClientProtocol.Discover(System.String)** and **System.Web.Services.Discovery.DiscoveryClientProtocol.DiscoverAny(System.String)** methods, if the supplied URL is a valid discovery document, that document is added to the **System.Web.Services.Discovery.DiscoveryClientProtocol.Documents** collection. During invocations to the **System.Web.Services.Discovery.DiscoveryClientProtocol.ResolveAll** and **System.Web.Services.Discovery.DiscoveryClientProtocol.ResolveOneLevel** methods, valid discovery document references in the **System.Web.Services.Discovery.DiscoveryClientProtocol.References** collection are added to the **System.Web.Services.Discovery.DiscoveryClientProtocol.Documents** collection.

Errors

ToString

[C#] public DiscoveryExceptionDictionary Errors {get;}

[C++] public: __property DiscoveryExceptionDictionary* get_Errors();

[VB] Public ReadOnly Property Errors As DiscoveryExceptionDictionary

[JScript] public function get Errors() : DiscoveryExceptionDictionary;

Description

Gets a collection of exceptions that occurred during invocation of method from this class.

The **System.Web.Services.Discovery.DiscoveryClientProtocol.Errors** collection is populated with exceptions that occurred during invocations to the **System.Web.Services.Discovery.DiscoveryClientProtocol.Discover(System.String)** , **System.Web.Services.Discovery.DiscoveryClientProtocol.DiscoverAny(System.String)** , **System.Web.Services.Discovery.DiscoveryClientProtocol.ResolveAll** , and **System.Web.Services.Discovery.DiscoveryClientProtocol.ResolveOneLevel** methods. The **System.Web.Services.Discovery.DiscoveryExceptionDictionary** is cleared on invocation of these methods.

Events

PreAuthenticate

Proxy

References

ToString

Description

A collection of references founds in resolved discovery documents.

The **System.Web.Services.Discovery.DiscoveryClientProtocol.References** collection is populated during invocations to the **System.Web.Services.Discovery.DiscoveryClientProtocol.Discover(System.String)** , **System.Web.Services.Discovery.DiscoveryClientProtocol.DiscoverAny(System.String)** , **System.Web.Services.Discovery.DiscoveryClientProtocol.ResolveAll** and **System.Web.Services.Discovery.DiscoveryClientProtocol.ResolveOneLevel** methods. During invocations to the **System.Web.Services.Discovery.DiscoveryClientProtocol.Discover(System.String)** and **System.Web.Services.Discovery.DiscoveryClientProtocol.DiscoverAny(System.String)** methods, if the supplied URL is a valid discovery document, that document is added to the **System.Web.Services.Discovery.DiscoveryClientProtocol.References** collection together with references found in the discovery document. References added during invocations to the **System.Web.Services.Discovery.DiscoveryClientProtocol.Discover(System.String)** and **System.Web.Services.Discovery.DiscoveryClientProtocol.DiscoverAny(System.String)** methods are not necessarily valid discovery documents. During invocations to **System.Web.Services.Discovery.DiscoveryClientProtocol.ResolveAll** and **System.Web.Services.Discovery.DiscoveryClientProtocol.ResolveOneLevel** references within the **System.Web.Services.Discovery.DiscoveryClientProtocol.References** collection are verified as being valid discovery documents. If they are valid and contain references, they are also added to the **System.Web.Services.Discovery.DiscoveryClientProtocol.References** collection.

RequestEncoding

Site

Timeout

Url

UserAgent

Discover

```
[C#] public DiscoveryDocument Discover(string url);
[C++] public: DiscoveryDocument* Discover(String* url);
[VB] Public Function Discover(ByVal url As String) As DiscoveryDocument
[JScript] public function Discover(url : String) : DiscoveryDocument;
```

Description

Discovers the supplied URL to determine if it is a discovery document.

Return Value: A **System.Web.Services.Discovery.DiscoveryDocument** containing the results of Web Services discovery at the supplied URL.

The **System.Web.Services.Discovery.DiscoveryClientProtocol.Discover(System.String)** method expects that the supplied URL is a discovery document. If the URL refers to a Service Description or an XML schema an exception is thrown. To discover an XML schema or a Service Description invoke the **System.Web.Services.Discovery.DiscoveryClientProtocol.DiscoverAny(System.String)** method. The URL where Web Services discovery begins.

DiscoverAny

[C#] public DiscoveryDocument DiscoverAny(string url);
[C++] public: DiscoveryDocument* DiscoverAny(String* url);
[VB] Public Function DiscoverAny(ByVal url As String) As DiscoveryDocument
[JScript] public function DiscoverAny(url : String) : DiscoveryDocument;

Description

Discovers the supplied URL to determine if it is a discovery document, Service Description or an XML Schema Definition (XSD) schema.

Return Value: A **System.Web.Services.Discovery.DiscoveryDocument** containing the results of Web Services discovery at the supplied URL. If the *url* parameter refers to a Service Description or an XSD Schema, a **System.Web.Services.Discovery.DiscoveryDocument** is created in memory for it.

The **System.Web.Services.Discovery.DiscoveryClientProtocol.DiscoverAny(System.String)** method discovers whether the supplied URL is a discovery document, Service Description or XSD schema. If it is known that the URL only refers to a discovery document, the

System.Web.Services.Discovery.DiscoveryClientProtocol.Discover(System.String) method might be invoked. The URL where Web Services discovery begins.

Download

[C#] public Stream Download(ref string url);

[C++] public: Stream* Download(String** url);

[VB] Public Function Download(ByRef url As String) As Stream

[JScript] public function Download(url : String) : Stream; Downloads the discovery document at the supplied URL into a **System.IO.Stream** object.

Description

Downloads the discovery document at the supplied URL into a **System.IO.Stream** object.

Return Value: A **System.IO.Stream** containing the document at the supplied URL. The URL of the discovery document to download.

Download

[C#] public Stream Download(ref string url, ref string contentType);

[C++] public: Stream* Download(String** url, String** contentType);

[VB] Public Function Download(ByRef url As String, ByRef contentType As String) As Stream

[JScript] public function Download(url : String, contentType : String) : Stream;

Description

Downloads the discovery document at the supplied URL into a **System.IO.Stream** object, setting the *contentType* parameter to the MIME encoding of the discovery document.

Return Value: A **System.IO.Stream** containing the document at the supplied URL. The URL of the discovery document to download. The MIME encoding of the downloaded discovery document.

ReadAll

[C#] public DiscoveryClientResultCollection ReadAll(string topLevelFilename);

[C++] public: DiscoveryClientResultCollection* ReadAll(String* topLevelFilename);

[VB] Public Function ReadAll(ByVal topLevelFilename As String) As DiscoveryClientResultCollection

[JScript] public function ReadAll(topLevelFilename : String) : DiscoveryClientResultCollection;

Description

Reads in a file containing a map of saved discovery documents populating the **System.Web.Services.Discovery.DiscoveryClientProtocol.Documents** and **System.Web.Services.Discovery.DiscoveryClientProtocol.References** properties, with discovery documents, XML Schema Definition (XSD) schemas, and Service Descriptions referenced in the file.

Return Value: A **System.Web.Services.Discovery.DiscoveryClientResultCollection** containing the results found in the file with the map of saved discovery documents. The file format is a **System.Web.Services.Discovery.DiscoveryClientProtocol.DiscoveryClientResultsFile** class serialized into XML; however, one would typically create the file using only the **System.Web.Services.Discovery.DiscoveryClientProtocol.WriteAll(System.String,System.String)** method or Disco.exe.

A file containing a map of saved discovery documents can be created by the **System.Web.Services.Discovery.DiscoveryClientProtocol.WriteAll(System.String,System.String)** method or Disco.exe. Name of file to read in, containing the map of saved discovery documents.

ResolveAll

[C#] public void ResolveAll();

[C++] public: void ResolveAll();

[VB] Public Sub ResolveAll()

[JScript] public function ResolveAll();

Description

Resolves all references to discovery documents, XML Schema Definition (XSD) schemas, and Service Descriptions in the **System.Web.Services.Discovery.DiscoveryClientProtocol.References** property, as well as references found in referring discovery documents.

System.Web.Services.Discovery.DiscoveryClientProtocol.ResolveAll resolves all valid references it finds and places them in the **System.Web.Services.Discovery.DiscoveryClientProtocol.Documents** property.

Both **System.Web.Services.Discovery.DiscoveryClientProtocol.ResolveAll** and **System.Web.Services.Discovery.DiscoveryClientProtocol.ResolveOneLevel** download and verify XSD schemas and Service Descriptions in the **System.Web.Services.Discovery.DiscoveryClientProtocol.References** property. However, the two methods differ in how they handle discovery documents.

ResolveOneLevel

[C#] public void ResolveOneLevel();

[C++] public: void ResolveOneLevel();

[VB] Public Sub ResolveOneLevel()

[JScript] public function ResolveOneLevel();

Description

Resolves all references to discovery documents, XML Schema Definition (XSD) schemas and Service Descriptions in **System.Web.Services.Discovery.DiscoveryClientProtocol.References** , as well as references found in those discovery documents.

System.Web.Services.Discovery.DiscoveryClientProtocol.ResolveOneLevel resolves all valid references it finds and places them in the **System.Web.Services.Discovery.DiscoveryClientProtocol.Documents** property. Both **System.Web.Services.Discovery.DiscoveryClientProtocol.ResolveAll** and **System.Web.Services.Discovery.DiscoveryClientProtocol.ResolveOneLevel** download and verify XSD schemas and Service Descriptions in the **System.Web.Services.Discovery.DiscoveryClientProtocol.References** property. However, the two methods differ in how they handle discovery documents.

WriteAll

[C#] public DiscoveryClientResultCollection WriteAll(string directory, string topLevelFilename);

[C++] public: DiscoveryClientResultCollection* WriteAll(String* directory, String* topLevelFilename);

[VB] Public Function WriteAll(ByVal directory As String, ByVal topLevelFilename As String) As DiscoveryClientResultCollection

[JScript] public function WriteAll(directory : String, topLevelFilename : String) : DiscoveryClientResultCollection;

Description

Writes all discovery documents, XML Schema Definition (XSD) schemas, and Service Descriptions in the **System.Web.Services.Discovery.DiscoveryClientProtocol.Documents** property to the supplied directory and creates a file in that directory.

Return Value: A **System.Web.Services.Discovery.DiscoveryClientResultCollection** containing the results of all files saved.

The file created with the name of the *topLevelFilename* parameter in the directory specified by the directory parameter contains a map of saved discovery documents, XML Schema Definition (XSD) schemas and Service Descriptions. This file can be read in using the **System.Web.Services.Discovery.DiscoveryClientProtocol.ReadAll(System.String)** method to populate the

System.Web.Services.Discovery.DiscoveryClientProtocol.References and **System.Web.Services.Discovery.DiscoveryClientProtocol.Documents** properties. The format of the file is XML containing an serialized version of the **System.Web.Services.Discovery.DiscoveryClientProtocol.DiscoveryClientResultsFile** class. The directory in which to save all documents currently in the **System.Web.Services.Discovery.DiscoveryClientProtocol.Documents** property. The name of the file to create or overwrite containing a map of all documents saved.

DiscoveryClientReferenceCollection class

(System.Web.Services.Discovery)

WriteAll

Description

Represents a collection of **System.Web.Services.Discovery.DiscoveryReference** objects. This class cannot be inherited.

The **System.Web.Services.Discovery.DiscoveryClientProtocol.References** property of **System.Web.Services.Discovery.DiscoveryClientProtocol** is of type **System.Web.Services.Discovery.DiscoveryClientReferenceCollection** .

DiscoveryClientReferenceCollection

Example Syntax:

WriteAll

```
[C#] public DiscoveryClientReferenceCollection();
[C++] public: DiscoveryClientReferenceCollection();
[VB] Public Sub New()
[JScript] public function DiscoveryClientReferenceCollection();
```

Count

Dictionary

InnerHashtable

Item

WriteAll

Description

Gets or sets a **System.Web.Services.Discovery.DiscoveryReference** object from the **System.Web.Services.Discovery.DiscoveryClientReferenceCollection** with the specified URL. The URL for the DiscoveryReference to get or set from the **System.Web.Services.Discovery.DiscoveryClientReferenceCollection**.

Keys

WriteAll

```
[C#] public ICollection Keys {get;}
[C++] public: __property ICollection* get_Keys();
[VB] Public ReadOnly Property Keys As ICollection
[JScript] public function get Keys() : ICollection;
```

Description

Gets an **System.Collections.ICollection** object with all of the keys in the **System.Web.Services.Discovery.DiscoveryClientReferenceCollection** .

Values

WriteAll

[C#] public ICollection Values {get;}

[C++] public: __property ICollection* get_Values();

[VB] Public ReadOnly Property Values As ICollection

[JScript] public function get Values() : ICollection;

Description

Gets an **System.Collections.ICollection** object with all of the values in the **System.Web.Services.Discovery.DiscoveryClientReferenceCollection** .

Add

[C#] public void Add(DiscoveryReference value);

[C++] public: void Add(DiscoveryReference* value);

[VB] Public Sub Add(ByVal value As DiscoveryReference)

[JScript] public function Add(value : DiscoveryReference); Adds a **System.Web.Services.Discovery.DiscoveryReference** to the **System.Web.Services.Discovery.DiscoveryClientReferenceCollection** .

Description

Adds a **System.Web.Services.Discovery.DiscoveryReference** to the **System.Web.Services.Discovery.DiscoveryClientReferenceCollection** . The **System.Web.Services.Discovery.DiscoveryReference** to add to the **System.Web.Services.Discovery.DiscoveryClientReferenceCollection**.

Add

```
[C#] public void Add(string url, DiscoveryReference value);
[C++] public: void Add(String* url, DiscoveryReference* value);
[VB] Public Sub Add(ByVal url As String, ByVal value As DiscoveryReference)
[JScript] public function Add(url : String, value : DiscoveryReference);
```

Description

Adds a **System.Web.Services.Discovery.DiscoveryReference** with the specified URL and value to the **System.Web.Services.Discovery.DiscoveryClientReferenceCollection** . The URL for the reference to add to the **System.Web.Services.Discovery.DiscoveryClientReferenceCollection**. The DiscoveryReference to add to the **System.Web.Services.Discovery.DiscoveryClientReferenceCollection**.

Contains

```
[C#] public bool Contains(string url);
[C++] public: bool Contains(String* url);
[VB] Public Function Contains(ByVal url As String) As Boolean
[JScript] public function Contains(url : String) : Boolean;
```

Description

Determines if the **System.Web.Services.Discovery.DiscoveryClientReferenceCollection** contains a **System.Web.Services.Discovery.DiscoveryReference** with the specified URL.

Return Value: **true** if the **System.Web.Services.Discovery.DiscoveryClientReferenceCollection** contains a **System.Web.Services.Discovery.DiscoveryReference** with the specified URL; otherwise, **false** . The URL for the **System.Web.Services.Discovery.DiscoveryReference** to locate within the **System.Web.Services.Discovery.DiscoveryClientReferenceCollection**.

Remove

```
[C#] public void Remove(string url);
[C++] public: void Remove(String* url);
[VB] Public Sub Remove(ByVal url As String)
[JScript] public function Remove(url : String);
```

Description

Removes a **System.Web.Services.Discovery.DiscoveryReference** with the specified URL from the **System.Web.Services.Discovery.DiscoveryClientReferenceCollection** . A string that represents the URL for the object to remove from the **System.Web.Services.Discovery.DiscoveryClientReferenceCollection**.

DiscoveryClientResult class (System.Web.Services.Discovery)

ToString

Description

Represents the details of a discovery reference without the actual contents of the referenced document. This class cannot be inherited.

Using the **System.Web.Services.Discovery.DiscoveryClientProtocol.WriteAll(System.String,System.String)** method of **System.Web.Services.Discovery.DiscoveryClientProtocol** , all valid referenced documents and a file containing a map of all save documents can be written to disk. The file containing a map of all saved documents contains the details of each document as summarized by the properties of **System.Web.Services.Discovery.DiscoveryClientResult** .

DiscoveryClientResult

Example Syntax:

ToString

[C#] public DiscoveryClientResult();

[C++] public: DiscoveryClientResult();

[VB] Public Sub New()

[JScript] public function DiscoveryClientResult(); Initializes a new instance of the **System.Web.Services.Discovery.DiscoveryClientResult** class.

Description

Initializes a new instance of the **System.Web.Services.Discovery.DiscoveryClientResult** class.

DiscoveryClientResult

Example Syntax:

ToString

[C#] public DiscoveryClientResult(Type referenceType, string url, string filename);

[C++] public: DiscoveryClientResult(Type* referenceType, String* url, String* filename);

[VB] Public Sub New(ByVal referenceType As Type, ByVal url As String, ByVal filename As String)

[JScript] public function DiscoveryClientResult(referenceType : Type, url : String, filename : String);

Description

Initializes a new instance of the **System.Web.Services.Discovery.DiscoveryClientResult** class and sets the **System.Web.Services.Discovery.DiscoveryClientResult.ReferenceTypeName** property to *referenceType* , the **System.Web.Services.Discovery.DiscoveryClientResult.Url** property to *url* and the **System.Web.Services.Discovery.DiscoveryClientResult.Filename** property to *filename* . Name of the type for a reference in the discovery document. Sets the **System.Web.Services.Discovery.DiscoveryClientResult.ReferenceTypeName** property. URL for the reference. Sets the

System.Web.Services.Discovery.DiscoveryClientResult.Url property. Name of the file in which the reference was saved. Sets the **System.Web.Services.Discovery.DiscoveryClientResult.Filename** property.

Filename

ToString

```
[C#] public string Filename {get; set;}
[C++] public: __property String* get_Filename();public: __property void
set_Filename(String*);
[VB] Public Property Filename As String
[JScript] public function get Filename() : String;public function set
Filename(String);
```

Description

Gets or sets the name of the file in which the reference is saved.

The name of the file is the name of the file saved on the local machine based on the contents of the file. For instance, if the referenced file is a discovery document, the saved file will have a .disco extension on a Windows operating system.

ReferenceTypeName

ToString

```
[C#] public string ReferenceTypeName {get; set;}
[C++] public: __property String* get_ReferenceTypeName();public: __property
void set_ReferenceTypeName(String*);
```

[VB] Public Property ReferenceTypeName As String

[JScript] public function get ReferenceTypeName() : String;public function set ReferenceTypeName(String);

Description

Name of the type for a reference in the discovery document.

A reference within a discovery document can contain references to Service Descriptions, XSD schemas, or other discovery documents. Therefore, **System.Web.Services.Discovery.DiscoveryClientResult.ReferenceTypeName** can have the following values: **System.Web.Services.Description.ServiceDescription** , **System.Xml.Schema.XmlSchema** , and **System.Web.Services.Discovery.DiscoveryDocument** .

Url

ToString

[C#] public string Url {get; set;}

[C++] public: __property String* get_Url();public: __property void set_Url(String*);

[VB] Public Property Url As String

[JScript] public function get Url() : String;public function set Url(String);

Description

Gets or sets the URL for the reference.

The URL can refer to a discovery document, XML Schema Definition (XSD) schema, or a Service Description.

DiscoveryClientResultCollection class (System.Web.Services.Discovery)

ToString

Description

Contains a collection of **System.Web.Services.Discovery.DiscoveryClientResult** objects. This class cannot be inherited.

DiscoveryClientResultCollection

Example Syntax:

ToString

[C#] public DiscoveryClientResultCollection();

[C++] public: DiscoveryClientResultCollection();

[VB] Public Sub New()

[JScript] public function DiscoveryClientResultCollection();

Count

InnerList

Item

ToString

Description

Gets or sets the **System.Web.Services.Discovery.DiscoveryClientResult** at position *i* of the **System.Web.Services.Discovery.DiscoveryClientResultCollection** .

This property provides the ability to access a specific element in the collection by using the following syntax: myCollection[index] . The zero-based index of the **System.Web.Services.Discovery.DiscoveryClientResult** to get or set.

List

Add

[C#] public int Add(DiscoveryClientResult value);

[C++] public: int Add(DiscoveryClientResult* value);

[VB] Public Function Add(ByVal value As DiscoveryClientResult) As Integer

[JScript] public function Add(value : DiscoveryClientResult) : int;

Description

Adds a **System.Web.Services.Discovery.DiscoveryClientResult** to the **System.Web.Services.Discovery.DiscoveryClientResultCollection** .

Return Value: The position into which the **System.Web.Services.Discovery.DiscoveryClientResult** was inserted. The **System.Web.Services.Discovery.DiscoveryClientResult** to add to the **System.Web.Services.Discovery.DiscoveryClientResultCollection**.

Contains

[C#] public bool Contains(DiscoveryClientResult value);

[C++] public: bool Contains(DiscoveryClientResult* value);

[VB] Public Function Contains(ByVal value As DiscoveryClientResult) As Boolean

[JScript] public function Contains(value : DiscoveryClientResult) : Boolean;

Description

Determines whether the **System.Web.Services.Discovery.DiscoveryClientResultCollection** contains a specific **System.Web.Services.Discovery.DiscoveryClientResult** .

Return Value: **true** if the **System.Web.Services.Discovery.DiscoveryClientResult** is found in the **System.Web.Services.Discovery.DiscoveryClientResultCollection** ; otherwise, **false** . The **System.Web.Services.Discovery.DiscoveryClientResult** to locate in the **System.Web.Services.Discovery.DiscoveryClientResultCollection**.

Remove

[C#] public void Remove(DiscoveryClientResult value);

[C++] public: void Remove(DiscoveryClientResult* value);

[VB] Public Sub Remove(ByVal value As DiscoveryClientResult)

[JScript] public function Remove(value : DiscoveryClientResult);

Description

Removes the first occurrence of a specific **System.Web.Services.Discovery.DiscoveryClientResult** from the **System.Web.Services.Discovery.DiscoveryClientResultCollection** .

The **System.Web.Services.Discovery.DiscoveryClientResult** elements that follow the removed **System.Web.Services.Discovery.DiscoveryClientResult** move up to occupy the vacated spot. The **System.Web.Services.Discovery.DiscoveryClientResult** to remove from the **System.Web.Services.Discovery.DiscoveryClientResultCollection**.

DiscoveryClientProtocol.DiscoveryClientResultsFile class (System.Web.Services.Discovery)

ToString

Description

Represents the root element of an XML document containing the results of all files written when the **System.Web.Services.Discovery.DiscoveryClientProtocol.WriteAll(System.String,System.String)** method is invoked.

When you invoke the **System.Web.Services.Discovery.DiscoveryClientProtocol.WriteAll(System.String,System.String)** method, all resolved discovery documents and a file containing a map of all those files are saved to a directory. The map file is described in XML with the root element being **System.Web.Services.Discovery.DiscoveryClientProtocol.DiscoveryClientResultsFile** ; this class is passed to the **System.Xml.Serialization.XmlSerializer** class to serialize the results.

DiscoveryClientProtocol.DiscoveryClientResultsFile

Example Syntax:

ToString

```
[C#] public DiscoveryClientProtocol.DiscoveryClientResultsFile();
[C++] public: DiscoveryClientResultsFile();
[VB] Public Sub New()
[JScript] public function DiscoveryClientProtocol.DiscoveryClientResultsFile();
```

Results

ToString

```
[C#] public DiscoveryClientResultCollection Results {get;}
[C++] public: __property DiscoveryClientResultCollection* get_Results();
[VB] Public ReadOnly Property Results As DiscoveryClientResultCollection
[JScript] public function get Results() : DiscoveryClientResultCollection;
```

Description

Gets a collection of **System.Web.Services.Discovery.DiscoveryClientResult** objects.

DiscoveryDocument class (System.Web.Services.Discovery)

ToString

Description

Represents a discovery document. This class cannot be inherited.

Web Services discovery involves discovering the available Web Services given an URL. The URL typically points to a discovery document, which usually has a .disco file extension. The discovery document, which is an XML document, contains references to information about the existance of Web Services, such as a Service Description, XML Schema Definition language (XSD) schema, or another discovery document. This class represents the contents of the discovery document; where the **System.Web.Services.Discovery.DiscoveryDocument.References** property contains a list of the references contained within the discovery document.

ToString

[C#] public const string Namespace;

[C++] public: const String* Namespace;

[VB] Public Const Namespace As String

[JScript] public var Namespace : String;

Description

Namespace of the discovery XML element of a discovery document.

A discovery document contains references to documents describing Web Services. These references are XML elements contained within a discovery XML element. That discovery XML element is a member of the XML namespace specified by the **System.Web.Services.Discovery.DiscoveryDocument.Namespace** constant.

DiscoveryDocument

Example Syntax:

ToString

[C#] public DiscoveryDocument();

[C++] public: DiscoveryDocument();

[VB] Public Sub New()

[JScript] public function DiscoveryDocument();

Description

Initializes a new instance of the **System.Web.Services.Discovery.DiscoveryDocument** class.

References

ToString

[C#] public IList References {get;}

[C++] public: __property IList* get_References();

[VB] Public ReadOnly Property References As IList

[JScript] public function get References() : IList;

Description

A list of references contained within the discovery document.

A discovery document contains references to information about the existence of Web Services. These references can refer to Service Descriptions, XSD schemas, or other discovery documents. The **System.Web.Services.Discovery.DiscoveryDocument.References** property contains a list of those references.

CanRead

[C#] public static bool CanRead(XmlReader xmlReader);

[C++] public: static bool CanRead(XmlReader* xmlReader);

[VB] Public Shared Function CanRead(ByVal xmlReader As XmlReader) As Boolean

[JScript] public static function CanRead(xmlReader : XmlReader) : Boolean;

Description

Returns a value indicating whether the passed **System.Xml.XmlReader** can be deserialized into a **System.Web.Services.Discovery.DiscoveryDocument** .

Return Value: **true** if **System.Xml.XmlReader** can be deserialized into a **System.Web.Services.Discovery.DiscoveryDocument** ; otherwise, **false** . The **System.Xml.XmlReader** to determine whether it can be deserialized into a **System.Web.Services.Discovery.DiscoveryDocument**.

Read

[C#] public static DiscoveryDocument Read(Stream stream);

[C++] public: static DiscoveryDocument* Read(Stream* stream);

[VB] Public Shared Function Read(ByVal stream As Stream) As DiscoveryDocument

[JScript] public static function Read(stream : Stream) : DiscoveryDocument;

Reads and returns a **System.Web.Services.Discovery.DiscoveryDocument** from the passed object.

Description

Reads and returns a **System.Web.Services.Discovery.DiscoveryDocument** from the passed **System.IO.Stream** .

Return Value: A **System.Web.Services.Discovery.DiscoveryDocument** containing the contents of a discovery document from the passed **System.IO.Stream** . The **System.IO.Stream** from which to read the **System.Web.Services.Discovery.DiscoveryDocument** .

Read

```
[C#] public static DiscoveryDocument Read(TextReader reader);
[C++] public: static DiscoveryDocument* Read(TextReader* reader);
[VB] Public Shared Function Read(ByVal reader As TextReader) As
DiscoveryDocument
[JScript] public static function Read(reader : TextReader) : DiscoveryDocument;
```

Description

Reads and returns a **System.Web.Services.Discovery.DiscoveryDocument** from the passed **System.IO.TextReader** .

Return Value: A **System.Web.Services.Discovery.DiscoveryDocument** containing the contents of a discovery document from the passed **System.IO.TextReader** . The **System.IO.TextReader** from which to read the **System.Web.Services.Discovery.DiscoveryDocument** .

Read

[C#] public static DiscoveryDocument Read(XmlReader xmlReader);

[C++] public: static DiscoveryDocument* Read(XmlReader* xmlReader);

[VB] Public Shared Function Read(ByVal xmlReader As XmlReader) As DiscoveryDocument

[JScript] public static function Read(xmlReader : XmlReader) : DiscoveryDocument;

Description

Reads and returns a **System.Web.Services.Discovery.DiscoveryDocument** from the passed **System.Xml.XmlReader** .

Return Value: A **System.Web.Services.Discovery.DiscoveryDocument** containing the contents of a discovery document from the passed **System.Xml.XmlReader** . The **System.Xml.XmlReader** from which to read the **System.Web.Services.Discovery.DiscoveryDocument** .

Write

[C#] public void Write(Stream stream);

[C++] public: void Write(Stream* stream);

[VB] Public Sub Write(ByVal stream As Stream)

[JScript] public function Write(stream : Stream);

Description

Writes this **System.Web.Services.Discovery.DiscoveryDocument** into the passed **System.IO.Stream** . The **System.IO.Stream** into which this **System.Web.Services.Discovery.DiscoveryDocument** is written.

Write

[C#] public void Write(TextWriter writer);

[C++] public: void Write(TextWriter* writer);

[VB] Public Sub Write(ByVal writer As TextWriter)

[JScript] public function Write(writer : TextWriter); Writes this **System.Web.Services.Discovery.DiscoveryDocument** into the passed object.

Description

Writes this **System.Web.Services.Discovery.DiscoveryDocument** into the passed **System.IO.TextWriter** . The **System.IO.TextWriter** into which this **System.Web.Services.Discovery.DiscoveryDocument** is written.

Write

[C#] public void Write(XmlWriter writer);

[C++] public: void Write(XmlWriter* writer);

[VB] Public Sub Write(ByVal writer As XmlWriter)

[JScript] public function Write(writer : XmlWriter);

Description

Writes this **System.Web.Services.Discovery.DiscoveryDocument** into the passed **System.Xml.XmlWriter** . The **System.Xml.XmlWriter** into which this **System.Web.Services.Discovery.DiscoveryDocument** is written.

DiscoveryDocumentLinksPattern class (System.Web.Services.Discovery)

Write

Description

DiscoveryDocumentLinksPattern

Example Syntax:

Write

[C#] public DiscoveryDocumentLinksPattern();

[C++] public: DiscoveryDocumentLinksPattern();

[VB] Public Sub New()

[JScript] public function DiscoveryDocumentLinksPattern();

Pattern

Write

[C#] public override string Pattern {get;}

[C++] public: __property virtual String* get_Pattern();

[VB] Overrides Public ReadOnly Property Pattern As String

[JScript] public function get Pattern() : String;

Description

GetDiscoveryReference

[C#] public override DiscoveryReference GetDiscoveryReference(string filename);

[C++] public: DiscoveryReference* GetDiscoveryReference(String* filename);

[VB] Overrides Public Function GetDiscoveryReference(ByVal filename As String) As DiscoveryReference

[JScript] public override function GetDiscoveryReference(filename : String) : DiscoveryReference;

Description

DiscoveryDocumentReference class (System.Web.Services.Discovery)

ToString

Description

Represents a reference to a discovery document. This class cannot be inherited.

Web Services discovery involves discovering the available Web Services given an URL. The URL typically points to a discovery document, which usually has a .disco file extension. The discovery document contains references to information about the existance of Web Services, such as Service Descriptions, XML Schema Definition language (XSD) schemas, or other discovery documents. This class represents a reference to a discovery document.

DiscoveryDocumentReference

Example Syntax:

ToString

[C#] public DiscoveryDocumentReference();

[C++] public: DiscoveryDocumentReference();

[VB] Public Sub New()

[JScript] public function DiscoveryDocumentReference(); Initializes a new instance of the **System.Web.Services.Discovery.DiscoveryDocumentReference** class.

Description

Initializes a new instance of the **System.Web.Services.Discovery.DiscoveryDocumentReference** class.

DiscoveryDocumentReference

Example Syntax:

ToString

[C#] public DiscoveryDocumentReference(string href);

[C++] public: DiscoveryDocumentReference(String* href);

[VB] Public Sub New(ByVal href As String)

[JScript] public function DiscoveryDocumentReference(href : String);

Description

Initializes a new instance of the **System.Web.Services.Discovery.DiscoveryDocumentReference** class, setting the **System.Web.Services.Discovery.DiscoveryDocumentReference.Ref** property to *href*. Reference to a discovery document.

ClientProtocol

DefaultFilename

ToString

Description

Gets the name of the default file to use when saving the referenced discovery document.

Document

ToString

[C#] public DiscoveryDocument Document {get;}

[C++] public: __property DiscoveryDocument* get_Document();

[VB] Public ReadOnly Property Document As DiscoveryDocument

[JScript] public function get Document() : DiscoveryDocument;

Description

Gets the contents of the referenced discovery document as a **System.Web.Services.Discovery.DiscoveryDocument** object.

If the discovery document has not been downloaded and added to the **System.Web.Services.Discovery.DiscoveryClientProtocol.Documents** property of **System.Web.Services.Discovery.DiscoveryReference.ClientProtocol** , an attempt to download and resolve the document is made.

Ref

ToString

[C#] public string Ref {get; set;}

[C++] public: __property String* get_Ref();public: __property void set_Ref(String*);

[VB] Public Property Ref As String

[JScript] public function get Ref() : String;public function set Ref(String);

Description

Gets or sets the reference to a discovery document.

For most references, the **System.Web.Services.Discovery.DiscoveryDocumentReference.Ref** property is a URL, such as http://www.contoso.com/MyWebService.disco.

Url

ToString

[C#] public override string Url {get; set;}

[C++] public: __property virtual String* get_Url();public: __property virtual void set_Url(String*);

[VB] Overrides Public Property Url As String

[JScript] public function get Url() : String;public function set Url(String);

Description

Gets or sets the URL of the referenced discovery document.

Returns the value of the **System.Web.Services.Discovery.DiscoveryDocumentReference.Ref** property.

ReadDocument

[C#] public override object ReadDocument(Stream stream);

[C++] public: Object* ReadDocument(Stream* stream);

[VB] Overrides Public Function ReadDocument(ByVal stream As Stream) As Object

[JScript] public override function ReadDocument(stream : Stream) : Object;

Description

Reads and returns the discovery document from the passed **System.IO.Stream** .

Return Value: A **System.Web.Services.Discovery.DiscoveryDocument** containing the contents of the referenced discovery document. **System.IO.Stream** containing the discovery document.

Resolve

[C#] protected internal override void Resolve(string contentType, Stream stream);

[C++] protected public: void Resolve(String* contentType, Stream* stream);

[VB] Overrides Protected Friend Dim Sub Resolve(ByVal contentType As String, ByVal stream As Stream)

[JScript] package override function Resolve(contentType : String, stream : Stream);

Description

Resolves whether the referenced document is valid.

If the MIME type is text/xml and the contents of *stream* is a discovery document, then the contents of *stream* are added to the **System.Web.Services.Discovery.DiscoveryClientProtocol.References** and **System.Web.Services.Discovery.DiscoveryClientProtocol.Documents** properties of **System.Web.Services.Discovery.DiscoveryReference.ClientProtocol** . The MIME type of *stream*. The **System.IO.Stream** containing the referenced document.

ResolveAll

[C#] public void ResolveAll();

[C++] public: void ResolveAll();

[VB] Public Sub ResolveAll()

[JScript] public function ResolveAll();

Description

Verifies that all referenced documents within the discovery document are valid.

Unless you specifically need to resolve the individual references of a **System.Web.Services.Discovery.DiscoveryDocumentReference** object, you should invoke the **System.Web.Services.Discovery.DiscoveryClientProtocol.ResolveAll** or **System.Web.Services.Discovery.DiscoveryClientProtocol.ResolveOneLevel** methods of **System.Web.Services.Discovery.DiscoveryClientProtocol** .

WriteDocument

[C#] public override void WriteDocument(object document, Stream stream);

[C++] public: void WriteDocument(Object* document, Stream* stream);

[VB] Overrides Public Sub WriteDocument(ByVal document As Object, ByVal stream As Stream)

[JScript] public override function WriteDocument(document : Object, stream : Stream);

Description

Writes the passed **System.Web.Services.Discovery.DiscoveryDocument** into the passed **System.IO.Stream** . The **System.Web.Services.Discovery.DiscoveryDocument** to write into *stream.* The **System.IO.Stream** into which the serialized discovery document is written.

DiscoveryDocumentSearchPattern class (System.Web.Services.Discovery)

WriteDocument

Description

DiscoveryDocumentSearchPattern

Example Syntax:

WriteDocument

[C#] public DiscoveryDocumentSearchPattern();

[C++] public: DiscoveryDocumentSearchPattern();

[VB] Public Sub New()

[JScript] public function DiscoveryDocumentSearchPattern();

Pattern

WriteDocument

[C#] public override string Pattern {get;}

[C++] public: __property virtual String* get_Pattern();

[VB] Overrides Public ReadOnly Property Pattern As String

[JScript] public function get Pattern() : String;

Description

GetDiscoveryReference

[C#] public override DiscoveryReference GetDiscoveryReference(string filename);

[C++] public: DiscoveryReference* GetDiscoveryReference(String* filename);

[VB] Overrides Public Function GetDiscoveryReference(ByVal filename As

String) As DiscoveryReference

[JScript] public override function GetDiscoveryReference(filename : String) : DiscoveryReference;

Description

DiscoveryExceptionDictionary class (System.Web.Services.Discovery)

ToString

Description

Collects exceptions that occurred during Web Services discovery. This class cannot be inherited.

The **System.Web.Services.Discovery.DiscoveryClientProtocol.Errors** property of **System.Web.Services.Discovery.DiscoveryClientProtocol** is of type **System.Web.Services.Discovery.DiscoveryExceptionDictionary** .

DiscoveryExceptionDictionary

Example Syntax:

ToString

[C#] public DiscoveryExceptionDictionary();

[C++] public: DiscoveryExceptionDictionary();

[VB] Public Sub New()

[JScript] public function DiscoveryExceptionDictionary();

Count

Dictionary

InnerHashtable

Item

ToString

Description

Gets or sets the **System.Exception** that occurred while discovering the specified URL from the **System.Web.Services.Discovery.DiscoveryExceptionDictionary** . The URL of the discovery document that caused an exception to be thrown during Web Services discovery.

Keys

ToString

[C#] public ICollection Keys {get;}

[C++] public: __property ICollection* get_Keys();

[VB] Public ReadOnly Property Keys As ICollection

[JScript] public function get Keys() : ICollection;

Description

Gets a **System.Collections.ICollection** object with all of the keys in the **System.Web.Services.Discovery.DiscoveryExceptionDictionary** .

Values

ToString

```
[C#] public ICollection Values {get;}
[C++] public: __property ICollection* get_Values();
[VB] Public ReadOnly Property Values As ICollection
[JScript] public function get Values() : ICollection;
```

Description

Gets a **System.Collections.ICollection** object containing all of the values in the **System.Web.Services.Discovery.DiscoveryExceptionDictionary** .

Add

```
[C#] public void Add(string url, Exception value);
[C++] public: void Add(String* url, Exception* value);
[VB] Public Sub Add(ByVal url As String, ByVal value As Exception)
[JScript] public function Add(url : String, value : Exception);
```

Description

Adds an **System.Exception** with a key of *url* to the **System.Web.Services.Discovery.DiscoveryExceptionDictionary** . The URL that caused an exception during Web Services discovery. The **System.Exception** that occurred during Web Services discovery.

Contains

```
[C#] public bool Contains(string url);
[C++] public: bool Contains(String* url);
```

[VB] Public Function Contains(ByVal url As String) As Boolean

[JScript] public function Contains(url : String) : Boolean;

Description

Determines whether the **System.Web.Services.Discovery.DiscoveryExceptionDictionary** contains an **System.Exception** with the specified URL.

Return Value: **true** if the **System.Web.Services.Discovery.DiscoveryExceptionDictionary** contains an **System.Exception** with the specified URL; otherwise, **false** . The URL of the **System.Exception** to locate within the **System.Web.Services.Discovery.DiscoveryExceptionDictionary**.

Remove

[C#] public void Remove(string url);

[C++] public: void Remove(String* url);

[VB] Public Sub Remove(ByVal url As String)

[JScript] public function Remove(url : String);

Description

Removes an **System.Exception** with the specified URL from the **System.Web.Services.Discovery.DiscoveryExceptionDictionary** . The URL of the **System.Exception** to remove from the **System.Web.Services.Discovery.DiscoveryExceptionDictionary**.

DiscoveryReference class (System.Web.Services.Discovery)

ToString

Description

The base class for discoverable references using Web Services discovery.

System.Web.Services.Discovery.ContractReference , **System.Web.Services.Discovery.SchemaReference** , and **System.Web.Services.Discovery.DiscoveryDocumentReference** all inherit from **System.Web.Services.Discovery.DiscoveryReference** , and represent the three types of documents disoverable through Web Services discovery: Service Descriptions, XML Schema Definition (XSD) schemas, and discovery documents, respectively.

DiscoveryReference

Example Syntax:

ToString

[C#] protected DiscoveryReference();

[C++] protected: DiscoveryReference();

[VB] Protected Sub New()

[JScript] protected function DiscoveryReference();

ClientProtocol

ToString

[C#] public DiscoveryClientProtocol ClientProtocol {get; set;}

[C++] public: __property DiscoveryClientProtocol* get_ClientProtocol();public:

__property void set_ClientProtocol(DiscoveryClientProtocol*);

[VB] Public Property ClientProtocol As DiscoveryClientProtocol

[JScript] public function get ClientProtocol() : DiscoveryClientProtocol;public function set ClientProtocol(DiscoveryClientProtocol);

Description

Gets or sets the instance of **System.Web.Services.Discovery.DiscoveryClientProtocol** used in a discovery process.

DefaultFilename

ToString

[C#] public virtual string DefaultFilename {get;}

[C++] public: __property virtual String* get_DefaultFilename();

[VB] Overridable Public ReadOnly Property DefaultFilename As String

[JScript] public function get DefaultFilename() : String;

Description

Gets the name of the default file to use when saving the referenced discovery document, XSD schema, or Service Description.

Url

ToString

[C#] public abstract string Url {get; set;}

[C++] public: __property virtual String* get_Url() = 0;public: __property virtual void set_Url(String*) = 0;

[VB] MustOverride Public Property Url As String

[JScript] public abstract function get Url() : String;public abstract function set Url(String);

Description

Gets or sets the URL of the referenced document.

FilenameFromUrl

[C#] protected static string FilenameFromUrl(string url);

[C++] protected: static String* FilenameFromUrl(String* url);

[VB] Protected Shared Function FilenameFromUrl(ByVal url As String) As String

[JScript] protected static function FilenameFromUrl(url : String) : String;

Description

Returns a file name based on the passed URL.

Return Value: Name of the file based on the passed URL. The URL on which the name of the file is based.

ReadDocument

[C#] public abstract object ReadDocument(Stream stream);

[C++] public: virtual Object* ReadDocument(Stream* stream) = 0;

[VB] MustOverride Public Function ReadDocument(ByVal stream As Stream) As Object

[JScript] public abstract function ReadDocument(stream : Stream) : Object;

Description

Reads the passed **System.IO.Stream** and returns an instance of the class representing the type of referenced document.

Return Value: An **System.Object** with an underlying type matching the type of referenced document.

The return value is always an **System.Object** . However, the underlying type varies, depending on the type of document referenced. For instance, a **System.IO.Stream** passed into **System.Web.Services.Discovery.SchemaReference.ReadDocument(System.IO .Stream)** returns an instance of **System.Xml.Schema.XmlSchema** . **System.IO.Stream**containing the reference document.

Resolve

[C#] public void Resolve();

[C++] public: void Resolve();

[VB] Public Sub Resolve()

[JScript] public function Resolve(); Resolves whether the referenced document is valid.

Description

Downloads the referenced document at **System.Web.Services.Discovery.DiscoveryReference.Url** to resolve whether the referenced document is valid.

Downloads the referenced document and then invokes the overloaded **System.Web.Services.Discovery.DiscoveryReference.Resolve** member that takes a contentType and a **System.IO.Stream** . If the MIME type and the contents of *stream* match those expected by the reference type, then the contents of *stream* are added to the **System.Web.Services.Discovery.DiscoveryClientProtocol.References** and **System.Web.Services.Discovery.DiscoveryClientProtocol.Documents** properties of **System.Web.Services.Discovery.DiscoveryReference.ClientProtocol** .

Resolve

[C#] protected internal abstract void Resolve(string contentType, Stream stream);

[C++] protected public: virtual void Resolve(String* contentType, Stream* stream) = 0;

[VB] MustOverride Protected Friend Dim Sub Resolve(ByVal contentType As String, ByVal stream As Stream)

[JScript] package abstract function Resolve(contentType : String, stream : Stream);

Description

Resolves whether the referenced document is valid.

If the MIME type and the contents of *stream* match those expected by the reference type, then the contents of *stream* are added to the **System.Web.Services.Discovery.DiscoveryClientProtocol.References** and **System.Web.Services.Discovery.DiscoveryClientProtocol.Documents** properties of **System.Web.Services.Discovery.DiscoveryReference.ClientProtocol** . The MIME type of *stream*. The **System.IO.Stream** containing the referenced document.

WriteDocument

[C#] public abstract void WriteDocument(object document, Stream stream);

[C++] public: virtual void WriteDocument(Object* document, Stream* stream) = 0;

[VB] MustOverride Public Sub WriteDocument(ByVal document As Object, ByVal stream As Stream)

[JScript] public abstract function WriteDocument(document : Object, stream : Stream);

Description

When overridden in a derived class, writes the document into a **System.IO.Stream** . The document to write into a **System.IO.Stream**. The **System.IO.Stream** into which the *document* is written.

DiscoveryReferenceCollection class (System.Web.Services.Discovery)

WriteDocument

Description

A collection of discovery references. This class cannot be inherited.

DiscoveryReferenceCollection

Example Syntax:

WriteDocument

```
[C#] public DiscoveryReferenceCollection();
[C++] public: DiscoveryReferenceCollection();
[VB] Public Sub New()
[JScript] public function DiscoveryReferenceCollection();
```

Count

InnerList

Item

WriteDocument

Description

Gets or sets the **System.Web.Services.Discovery.DiscoveryReference** at the specified index. The zero-based index of the **System.Web.Services.Discovery.DiscoveryReference** to get or set.

List

Add

```
[C#] public int Add(DiscoveryReference value);
[C++] public: int Add(DiscoveryReference* value);
[VB] Public Function Add(ByVal value As DiscoveryReference) As Integer
[JScript] public function Add(value : DiscoveryReference) : int;
```

Description

Adds a **System.Web.Services.Discovery.DiscoveryReference** to the **System.Web.Services.Discovery.DiscoveryReferenceCollection** .

Return Value: The position into which the **System.Web.Services.Discovery.DiscoveryReference** was inserted into the **System.Web.Services.Discovery.DiscoveryReferenceCollection** . The **System.Web.Services.Discovery.DiscoveryReference** to add to the **System.Web.Services.Discovery.DiscoveryReferenceCollection**.

Contains

[C#] public bool Contains(DiscoveryReference value);

[C++] public: bool Contains(DiscoveryReference* value);

[VB] Public Function Contains(ByVal value As DiscoveryReference) As Boolean

[JScript] public function Contains(value : DiscoveryReference) : Boolean;

Description

Determines whether the **System.Web.Services.Discovery.DiscoveryReferenceCollection** contains a specific **System.Web.Services.Discovery.DiscoveryReference** .

Return Value: **true** if the **System.Web.Services.Discovery.DiscoveryReferenceCollection** contains the **System.Web.Services.Discovery.DiscoveryReference** ; otherwise, **false** . The **System.Web.Services.Discovery.DiscoveryReference** to locate within the **System.Web.Services.Discovery.DiscoveryReferenceCollection**.

Remove

[C#] public void Remove(DiscoveryReference value);

[C++] public: void Remove(DiscoveryReference* value);

[VB] Public Sub Remove(ByVal value As DiscoveryReference)

[JScript] public function Remove(value : DiscoveryReference);

Description

Removes a **System.Web.Services.Discovery.DiscoveryReference** from the **System.Web.Services.Discovery.DiscoveryReferenceCollection** . The **System.Web.Services.Discovery.DiscoveryReference** to remove from the **System.Web.Services.Discovery.DiscoveryReferenceCollection**.

DiscoveryRequestHandler class (System.Web.Services.Discovery)

ToString

Description

DiscoveryRequestHandler

Example Syntax:

ToString

[C#] public DiscoveryRequestHandler();

[C++] public: DiscoveryRequestHandler();

[VB] Public Sub New()

[JScript] public function DiscoveryRequestHandler();

IsReusable

ToString

[C#] public bool IsReusable {get;}

[C++] public: __property bool get_IsReusable();

[VB] Public ReadOnly Property IsReusable As Boolean

[JScript] public function get IsReusable() : Boolean;

Description

ProcessRequest

[C#] public void ProcessRequest(HttpContext context);

[C++] public: __sealed void ProcessRequest(HttpContext* context);

[VB] NotOverridable Public Sub ProcessRequest(ByVal context As HttpContext)

[JScript] public function ProcessRequest(context : HttpContext);

Description

DiscoverySearchPattern class (System.Web.Services.Discovery)

ToString

Description

DiscoverySearchPattern

Example Syntax:

ToString

```
[C#] protected DiscoverySearchPattern();
[C++] protected: DiscoverySearchPattern();
[VB] Protected Sub New()
[JScript] protected function DiscoverySearchPattern();
```

Pattern

ToString

```
[C#] public abstract string Pattern {get;}
[C++] public: __property virtual String* get_Pattern() = 0;
[VB] MustOverride Public ReadOnly Property Pattern As String
[JScript] public abstract function get Pattern() : String;
```

Description

GetDiscoveryReference

```
[C#] public abstract DiscoveryReference GetDiscoveryReference(string filename);
```

[C++] public: virtual DiscoveryReference* GetDiscoveryReference(String* filename) = 0;

[VB] MustOverride Public Function GetDiscoveryReference(ByVal filename As String) As DiscoveryReference

[JScript] public abstract function GetDiscoveryReference(filename : String) : DiscoveryReference;

Description

DynamicDiscoveryDocument class (System.Web.Services.Discovery)

ToString

Description

This represents a discovery file.

ToString

[C#] public const string Namespace;

[C++] public: const String* Namespace;

[VB] Public Const Namespace As String

[JScript] public var Namespace : String;

Description

DynamicDiscoveryDocument

Example Syntax:

ToString

[C#] public DynamicDiscoveryDocument();

[C++] public: DynamicDiscoveryDocument();

[VB] Public Sub New()

[JScript] public function DynamicDiscoveryDocument();

Description

Default constructor.

ExcludePaths

ToString

[C#] public ExcludePathInfo[] ExcludePaths {get; set;}

[C++] public: __property ExcludePathInfo* get_ExcludePaths();public: __property void set_ExcludePaths(ExcludePathInfo*[]);

[VB] Public Property ExcludePaths As ExcludePathInfo ()

[JScript] public function get ExcludePaths() : ExcludePathInfo[];public function set ExcludePaths(ExcludePathInfo[]);

Description

Load

[C#] public static DynamicDiscoveryDocument Load(Stream stream);

```
[C++] public: static DynamicDiscoveryDocument* Load(Stream* stream);
[VB] Public Shared Function Load(ByVal stream As Stream) As DynamicDiscoveryDocument
[JScript] public static function Load(stream : Stream) : DynamicDiscoveryDocument;
```

Description

Read an instance of WebMethodsFile from a stream.

Write

```
[C#] public void Write(Stream stream);
[C++] public: void Write(Stream* stream);
[VB] Public Sub Write(ByVal stream As Stream)
[JScript] public function Write(stream : Stream);
```

Description

Write this instance to a stream.

ExcludePathInfo class (System.Web.Services.Discovery)

Write

Description

ExcludePathInfo

Example Syntax:

Write

[C#] public ExcludePathInfo();

[C++] public: ExcludePathInfo();

[VB] Public Sub New()

[JScript] public function ExcludePathInfo();

Description

ExcludePathInfo

Example Syntax:

Write

[C#] public ExcludePathInfo(string path);

[C++] public: ExcludePathInfo(String* path);

[VB] Public Sub New(ByVal path As String)

[JScript] public function ExcludePathInfo(path : String);

Description

Path

Write

[C#] public string Path {get; set;}

[C++] public: __property String* get_Path();public: __property void set_Path(String*);

[VB] Public Property Path As String

[JScript] public function get Path() : String;public function set Path(String);

Description

SchemaReference class (System.Web.Services.Discovery)

ToString

Description

Represents a reference in a discovery document to an XML Schema Definition language (XSD) schema. This class cannot be inherited.

Web Services discovery involves discovering the available Web Services given an URL. A The URL typically points to a discovery document, that usually has a .disco file extension. The discovery document contains references to information about the existance of Web Services. These references can refer to Service Descriptions, XSD schemas, or other discovery documents. This class represents a reference to an XSD schema.

ToString

[C#] public const string Namespace;

[C++] public: const String* Namespace;

[VB] Public Const Namespace As String

[JScript] public var Namespace : String;

Description

XML namespace for XSD schema references in discovery documents.

Within a discovery document, a reference to an XSD schema is contained within a **schemaRef** XML element, which is a part of the XML namespace specified in the **System.Web.Services.Discovery.SchemaReference.Namespace** constant.

SchemaReference

Example Syntax:

ToString

[C#] public SchemaReference();

[C++] public: SchemaReference();

[VB] Public Sub New()

[JScript] public function SchemaReference(); Initializes a new instance of the **System.Web.Services.Discovery.SchemaReference** class.

Description

Initializes a new instance of the **System.Web.Services.Discovery.SchemaReference** class using default values.

SchemaReference

Example Syntax:

ToString

[C#] public SchemaReference(string url);

```
[C++] public: SchemaReference(String* url);
[VB] Public Sub New(ByVal url As String)
[JScript] public function SchemaReference(url : String);
```

Description

Initializes a new instance of the **System.Web.Services.Discovery.SchemaReference** class using the supplied URL as the XSD schema reference. The URL for the XSD schema. Initializes the **System.Web.Services.Discovery.SchemaReference.Ref** property.

ClientProtocol

DefaultFilename

ToString

Description

Gets the name of the default file to use when saving the referenced XSD schema.

Ref

ToString

```
[C#] public string Ref {get; set;}
[C++] public: __property String* get_Ref();public: __property void
set_Ref(String*);
[VB] Public Property Ref As String
[JScript] public function get Ref() : String;public function set Ref(String);
```

Description

Gets or sets the URL to the referenced XSD schema.

In a discovery document, a reference to an XSD schema is contained within a **schemaRef** XML element. The **schemaRef** XML element has a **ref** attribute, which is the URL for the referenced XSD schema. The **System.Web.Services.Discovery.ContractReference.Ref** property represents the value of the **ref** attribute.

Schema

ToString

```
[C#] public XmlSchema Schema {get;}
[C++] public: __property XmlSchema* get_Schema();
[VB] Public ReadOnly Property Schema As XmlSchema
[JScript] public function get Schema() : XmlSchema;
```

Description

Gets an **System.Xml.Schema.XmlSchema** object representing the XSD schema.

If the XSD schema has not been downloaded and added to the **System.Web.Services.Discovery.DiscoveryClientProtocol.Documents** property of **System.Web.Services.Discovery.DiscoveryReference.ClientProtocol** , an attempt to download and resolve the document is made.

TargetNamespace

ToString

```
[C#] public string TargetNamespace {get; set;}
[C++] public: __property String* get_TargetNamespace();public: __property void set_TargetNamespace(String*);
[VB] Public Property TargetNamespace As String
[JScript] public function get TargetNamespace() : String;public function set TargetNamespace(String);
```

Description

Gets or sets the **targetNamespace** XML attribute of the XSD schema.

Url

ToString

```
[C#] public override string Url {get; set;}
[C++] public: __property virtual String* get_Url();public: __property virtual void set_Url(String*);
[VB] Overrides Public Property Url As String
[JScript] public function get Url() : String;public function set Url(String);
```

Description

Gets or sets the URL for the schema reference.

For the **System.Web.Services.Discovery.SchemaReference** class, the **System.Web.Services.Discovery.SchemaReference.Url** property returns the value of the **System.Web.Services.Discovery.SchemaReference.Ref** property.

ReadDocument

[C#] public override object ReadDocument(Stream stream);

[C++] public: Object* ReadDocument(Stream* stream);

[VB] Overrides Public Function ReadDocument(ByVal stream As Stream) As Object

[JScript] public override function ReadDocument(stream : Stream) : Object;

Description

Reads and returns the XSD schema from the passed **System.IO.Stream** .

Return Value: An **System.Xml.Schema.XmlSchema** containing the contents of the referenced XSD schema. **System.IO.Stream** containing the XSD schema.

Resolve

[C#] protected internal override void Resolve(string contentType, Stream stream);

[C++] protected public: void Resolve(String* contentType, Stream* stream);

[VB] Overrides Protected Friend Dim Sub Resolve(ByVal contentType As String, ByVal stream As Stream)

[JScript] package override function Resolve(contentType : String, stream : Stream);

Description

Resolves whether the the referenced document is valid.

If the MIME type is text/xml and the contents of *stream* are an XSD schema, then the contents of *stream* are added to the **System.Web.Services.Discovery.DiscoveryClientProtocol.References** and

System.Web.Services.Discovery.DiscoveryClientProtocol.Documents properties of **System.Web.Services.Discovery.DiscoveryReference.ClientProtocol** . The MIME content type of *stream*. The **System.IO.Stream** containing the referenced document.

WriteDocument

[C#] public override void WriteDocument(object document, Stream stream);

[C++] public: void WriteDocument(Object* document, Stream* stream);

[VB] Overrides Public Sub WriteDocument(ByVal document As Object, ByVal stream As Stream)

[JScript] public override function WriteDocument(document : Object, stream : Stream);

Description

Writes the passed XSD schema into the passed **System.IO.Stream** . The **System.Xml.Schema.XmlSchema** to write into *stream*. The **System.IO.Stream** into which the serialized XSD schema is written.

SoapBinding class (System.Web.Services.Discovery)

WriteDocument

Description

Represents a SOAP binding in a discovery document. This class cannot be inherited.

A SOAP binding is similar to an interface for Web Services and useful for versioning and when a developer is looking for a Web Service implementing a specific SOAP binding. For instance, a discovery document may contain optional information about SOAP Bindings, which specify the SOAP bindings implemented by referenced Web Servcies. SOAP bindings are specified within a discovery document by adding a **soap** XML element with an XML namespace equal to the **System.Web.Services.Discovery.SoapBinding.Namespace** constant. The **System.Web.Services.Discovery.SoapBinding.Address** property specifies the URL to the Web Service and the **System.Web.Services.Discovery.SoapBinding.Binding** property specifies the SOAP binding implemented by that Web Service.

WriteDocument

```
[C#] public const string Namespace;
[C++] public: const String* Namespace;
[VB] Public Const Namespace As String
[JScript] public var Namespace : String;
```

Description

The XML namespace of the element that specifies a SOAP binding within a discovery document.

SOAP bindings within a discovery document reside within a soap XML element that is a member of the XML namespace specifed by the **System.Web.Services.Discovery.SoapBinding.Namespace** constant.

SoapBinding

Example Syntax:

WriteDocument

```
[C#] public SoapBinding();
[C++] public: SoapBinding();
[VB] Public Sub New()
[JScript] public function SoapBinding();
```

Address

WriteDocument

```
[C#] public string Address {get; set;}
[C++] public: __property String* get_Address();public: __property void set_Address(String*);
[VB] Public Property Address As String
[JScript] public function get Address() : String;public function set Address(String);
```

Description

Gets or sets the URL of the Web Service implementing the SOAP binding.

Binding

WriteDocument

```
[C#] public XmlQualifiedName Binding {get; set;}
[C++] public: __property XmlQualifiedName* get_Binding();public: __property void set_Binding(XmlQualifiedName*);
```

[VB] Public Property Binding As XmlQualifiedName

[JScript] public function get Binding() : XmlQualifiedName;public function set Binding(XmlQualifiedName);

Description

Gets or sets the XML qualified name of the SOAP binding implemented by the Web Service.

XmlSchemaSearchPattern class (System.Web.Services.Discovery)

ToString

Description

XmlSchemaSearchPattern

Example Syntax:

ToString

[C#] public XmlSchemaSearchPattern();

[C++] public: XmlSchemaSearchPattern();

[VB] Public Sub New()

[JScript] public function XmlSchemaSearchPattern();

Pattern

ToString

[C#] public override string Pattern {get;}

[C++] public: __property virtual String* get_Pattern();

[VB] Overrides Public ReadOnly Property Pattern As String

[JScript] public function get Pattern() : String;

Description

System.Web.Services.Protocols

Description

The **System.Web.Services.Protocols** namespace consists of the classes that define the protocols used to transmit data across the wire during the communication between ASP.NET Web Service clients and Web Services.

AnyReturnReader class (System.Web.Services.Protocols)

Description

Constructors:

AnyReturnReader

Example Syntax:

[C#] public AnyReturnReader();

[C++] public: AnyReturnReader();

[VB] Public Sub New()

[JScript] public function AnyReturnReader();

Methods:

GetInitializer

[C#] public override object GetInitializer(LogicalMethodInfo methodInfo);

[C++] public: Object* GetInitializer(LogicalMethodInfo* methodInfo);

[VB] Overrides Public Function GetInitializer(ByVal methodInfo As LogicalMethodInfo) As Object

[JScript] public override function GetInitializer(methodInfo : LogicalMethodInfo) : Object;

Description

Initialize

[C#] public override void Initialize(object o);

[C++] public: void Initialize(Object* o);

[VB] Overrides Public Sub Initialize(ByVal o As Object)

[JScript] public override function Initialize(o : Object);

Description

Read

```
[C#] public override object Read(WebResponse response, Stream responseStream);
[C++] public: Object* Read(WebResponse* response, Stream* responseStream);
[VB] Overrides Public Function Read(ByVal response As WebResponse, ByVal responseStream As Stream) As Object
[JScript] public override function Read(response : WebResponse, responseStream : Stream) : Object;
```

Description

HtmlFormParameterReader class (System.Web.Services.Protocols)

ToString

Description

HtmlFormParameterReader

Example Syntax:

ToString

```
[C#] public HtmlFormParameterReader();
[C++] public: HtmlFormParameterReader();
[VB] Public Sub New()
[JScript] public function HtmlFormParameterReader();
```

Read

[C#] public override object[] Read(HttpRequest request);

[C++] public: Object* Read(HttpRequest* request) __gc[];

[VB] Overrides Public Function Read(ByVal request As HttpRequest) As Object()

[JScript] public override function Read(request : HttpRequest) : Object[];

Description

HtmlFormParameterWriter class (System.Web.Services.Protocols)

ToString

Description

HtmlFormParameterWriter

Example Syntax:

ToString

[C#] public HtmlFormParameterWriter();

[C++] public: HtmlFormParameterWriter();

[VB] Public Sub New()

[JScript] public function HtmlFormParameterWriter();

Properties:

RequestEncoding

UsesWriteRequest

ToString

Description

InitializeRequest

```
[C#] public override void InitializeRequest(WebRequest request, object[] values);
[C++] public: void InitializeRequest(WebRequest* request, Object* values __gc[]);
[VB] Overrides Public Sub InitializeRequest(ByVal request As WebRequest, ByVal values() As Object)
[JScript] public override function InitializeRequest(request : WebRequest, values : Object[]);
```

Description

WriteRequest

```
[C#] public override void WriteRequest(Stream requestStream, object[] values);
[C++] public: void WriteRequest(Stream* requestStream, Object* values __gc[]);
[VB] Overrides Public Sub WriteRequest(ByVal requestStream As Stream, ByVal values() As Object)
[JScript] public override function WriteRequest(requestStream : Stream, values :
```

Object[]);

Description

HttpGetClientProtocol class (System.Web.Services.Protocols)

WriteRequest

Description

Specifies the class for ASP.NET Web Service client proxies that use the HTTP-GET protocol.

ASP.NET incorporates two distinct Web Services functionalities: Building ASP.NET Web Services and Building Web Services clients. If you are building a Web Service client using ASP.NET, then a proxy class deriving indirectly or directly from **System.Web.Services.Protocols.WebClientProtocol** needs to be created for the Web Service you want to call. When the Web Service client calls the Web Service using HTTP, derive the proxy class from **System.Web.Services.Protocols.HttpSimpleClientProtocol** , which in turn derives from **System.Web.Services.Protocols.WebClientProtocol** .

HttpGetClientProtocol

Example Syntax:

WriteRequest

[C#] public HttpGetClientProtocol();

[C++] public: HttpGetClientProtocol();

[VB] Public Sub New()

[JScript] public function HttpGetClientProtocol();

Description

Initializes a new instance of the **System.Web.Services.Protocols.HttpGetClientProtocol** class.

AllowAutoRedirect

ClientCertificates

ConnectionGroupName

Container

CookieContainer

Credentials

DesignMode

Events

PreAuthenticate

Proxy

RequestEncoding

Site

Timeout

Url

UserAgent

GetWebRequest

[C#] protected override WebRequest GetWebRequest(Uri uri);

[C++] protected: WebRequest* GetWebRequest(Uri* uri);

[VB] Overrides Protected Function GetWebRequest(ByVal uri As Uri) As WebRequest

[JScript] protected override function GetWebRequest(uri : Uri) : WebRequest;

Description

Creates a **System.Net.WebRequest** instance for the specified URI.

Return Value: The **System.Net.WebRequest** instance.

This method overrides the base version of **System.Web.Services.Protocols.WebClientProtocol.GetWebRequest(System.Uri)** to specify that the HTTP request to the Web Service is made using HTTP-GET. By overriding this method, additional customizations can be made to the **System.Net.WebRequest** object before the Web Service request is made. For example you could add a custom header to the request. The **System.Uri** to use when creating the**System.Net.WebRequest**.

HttpMethodAttribute class (System.Web.Services.Protocols)

ToString

Description

Applying this attribute to a Web Service client using HTTP-GET or HTTP-POST, sets the types that serialize the parameters sent to a Web Service method and read the response from the Web Service method. This class cannot be inherited.

If a Web Service client invokes a Web Service method using HTTP-GET, **System.Web.Services.Protocols.HttpMethodAttribute.ReturnFormatter** must be set to **XmlReturnReader** and **System.Web.Services.Protocols.HttpMethodAttribute.ParameterFormatter** set to **UrlParameterWriter** . Web Service clients invoking a Web Service using HTTP-POST must set **System.Web.Services.Protocols.HttpMethodAttribute.ReturnFormatter** to **XmlReturnReader** and **System.Web.Services.Protocols.HttpMethodAttribute.ParameterFormatter** to **HtmlFormParameterWriter** .

HttpMethodAttribute

Example Syntax:

ToString

[C#] public HttpMethodAttribute();

[C++] public: HttpMethodAttribute();

[VB] Public Sub New()

[JScript] public function HttpMethodAttribute(); Initializes a new instance of the **System.Web.Services.Protocols.HttpMethodAttribute** class.

Description

Initializes a new instance of the **System.Web.Services.Protocols.HttpMethodAttribute** class.

HttpMethodAttribute

Example Syntax:

ToString

[C#] public HttpMethodAttribute(Type returnFormatter, Type parameterFormatter);

[C++] public: HttpMethodAttribute(Type* returnFormatter, Type* parameterFormatter);

[VB] Public Sub New(ByVal returnFormatter As Type, ByVal parameterFormatter As Type)

[JScript] public function HttpMethodAttribute(returnFormatter : Type, parameterFormatter : Type);

Description

Initializes a new instance of the **System.Web.Services.Protocols.HttpMethodAttribute** . Initializes the **System.Web.Services.Protocols.HttpMethodAttribute.ReturnFormatter** property to a **System.Type** that deserializes the response from a Web Service method. Initializes the **System.Web.Services.Protocols.HttpMethodAttribute.ParameterFormatter** property to a **System.Type** that serializes parameters sent from a Web Service client to a Web Service method.

ParameterFormatter

ToString

[C#] public Type ParameterFormatter {get; set;}

[C++] public: __property Type* get_ParameterFormatter();public: __property void set_ParameterFormatter(Type*);

[VB] Public Property ParameterFormatter As Type

[JScript] public function get ParameterFormatter() : Type;public function set ParameterFormatter(Type);

Description

Gets or sets a **System.Type** that serializes parameters sent from a Web Service client to the Web Service method.

If the Web Service client is invoking a Web Service method using HTTP-GET or HTTP-POST, **System.Web.Services.Protocols.HttpMethodAttribute.ParameterFormatter** must be **XMLReturnReader** .

ReturnFormatter

ToString

[C#] public Type ReturnFormatter {get; set;}

[C++] public: __property Type* get_ReturnFormatter();public: __property void set_ReturnFormatter(Type*);

[VB] Public Property ReturnFormatter As Type

[JScript] public function get ReturnFormatter() : Type;public function set ReturnFormatter(Type);

Description

Gets or sets a **System.Type** that deserializes the response from a Web Service method.

If the Web Service client is invoking a Web Service method using HTTP-GET, **System.Web.Services.Protocols.HttpMethodAttribute.ReturnFormatter** must be **UrlParameterWriter** , whereas a client using HTTP-POST must set **System.Web.Services.Protocols.HttpMethodAttribute.ReturnFormatter** to **HtmlFormParameterWriter** .

TypeId

HttpPostClientProtocol class (System.Web.Services.Protocols)

ToString

Description

Specifies the class for ASP.NET Web Service client proxies that use the HTTP-POST protocol.

ASP.NET incorporates two distinct Web Services functionalities: Building ASP.NET Web Services and Building Web Services clients. If you are building a Web Service client using ASP.NET, then a proxy class deriving indirectly or directly from **System.Web.Services.Protocols.WebClientProtocol** needs to be created for the Web Service you want to call. When the Web Service client is calling using HTTP, the proxy class should derive from **System.Web.Services.Protocols.HttpSimpleClientProtocol** , which derives from **System.Web.Services.Protocols.WebClientProtocol** .

HttpPostClientProtocol

Example Syntax:

ToString

[C#] public HttpPostClientProtocol();

[C++] public: HttpPostClientProtocol();

[VB] Public Sub New()

[JScript] public function HttpPostClientProtocol();

Description

Initializes a new instance of the **System.Web.Services.Protocols.HttpPostClientProtocol** class.

AllowAutoRedirect

ClientCertificates

ConnectionGroupName

Container

CookieContainer

Credentials

DesignMode

Events

PreAuthenticate

Proxy

RequestEncoding

Site

Timeout

Url

UserAgent

GetWebRequest

[C#] protected override WebRequest GetWebRequest(Uri uri);

[C++] protected: WebRequest* GetWebRequest(Uri* uri);

[VB] Overrides Protected Function GetWebRequest(ByVal uri As Uri) As WebRequest

[JScript] protected override function GetWebRequest(uri : Uri) : WebRequest;

Description

Creates a **System.Net.WebRequest** instance for the specified URI.

Return Value: The **System.Net.WebRequest** instance.

This method overrides the base version of **System.Web.Services.Protocols.WebClientProtocol.GetWebRequest(System.Uri)** to specify that the HTTP request to the Web Service is made using HTTP-POST. By overriding this method, you can customize the **System.Net.WebRequest** object before the Web Service request is made. For example, you can add a custom header to the request. The **System.Uri** to use when creating the **System.Net.WebRequest**.

HttpSimpleClientProtocol class (System.Web.Services.Protocols)

ToString

Description

The base class for communicating with an Web Service using HTTP-GET and HTTP-POST.

Specifies most of the implementation for communicating with an Web Service over HTTP.

HttpSimpleClientProtocol

Example Syntax:

ToString

[C#] protected HttpSimpleClientProtocol();

[C++] protected: HttpSimpleClientProtocol();

[VB] Protected Sub New()

[JScript] protected function HttpSimpleClientProtocol();

Description

Initializes a new instance of the **System.Web.Services.Protocols.HttpSimpleClientProtocol** class.

AllowAutoRedirect

ClientCertificates

ConnectionGroupName

Container

CookieContainer

Credentials

DesignMode

Events

PreAuthenticate

Proxy

RequestEncoding

Site

Timeout

Url

UserAgent

BeginInvoke

[C#] protected IAsyncResult BeginInvoke(string methodName, string requestUrl, object[] parameters, AsyncCallback callback, object asyncState);

[C++] protected: IAsyncResult* BeginInvoke(String* methodName, String* requestUrl, Object* parameters __gc[], AsyncCallback* callback, Object* asyncState);

[VB] Protected Function BeginInvoke(ByVal methodName As String, ByVal requestUrl As String, ByVal parameters() As Object, ByVal callback As AsyncCallback, ByVal asyncState As Object) As IAsyncResult

[JScript] protected function BeginInvoke(methodName : String, requestUrl : String, parameters : Object[], callback : AsyncCallback, asyncState : Object) : IAsyncResult;

Description

Starts an asynchronous invocation of a method of a HTTP Web service.

Return Value: An **System.IAsyncResult** which can be passed to **System.Web.Services.Protocols.HttpSimpleClientProtocol.EndInvoke(System.IAsyncResult)** to obtain the return values from the Web Service method.

The *methodName* parameter is used to find the types of the parameters and return values of the method that is invoking

System.Web.Services.Protocols.HttpSimpleClientProtocol.BeginInvoke(System.String,System.String,System.Object[],System.AsyncCallback,System.Object) . It is also used to find custom attributes which may have been added to the method. The name of the Web Service method. The url to use when creating the**System.Net.WebRequest**. An array of objects containing the parameters to pass to the Web Service method. The order of the values in the array correspond to the order of the parameters in the calling method of the derived class. The delegate to call when the asynchronous method call is complete. If *callback* is **null**, the delegate is not called. Additional information supplied by a client.

EndInvoke

[C#] protected object EndInvoke(IAsyncResult asyncResult);

[C++] protected: Object* EndInvoke(IAsyncResult* asyncResult);

[VB] Protected Function EndInvoke(ByVal asyncResult As IAsyncResult) As Object

[JScript] protected function EndInvoke(asyncResult : IAsyncResult) : Object;

Description

Completes asynchronous invocation of a Web Service method using HTTP. *Return Value:* An array of objects containing the return value and any by reference or out parameters for the Web Service method. The **System.IAsyncResult** returned from **System.Web.Services.Protocols.HttpSimpleClientProtocol.BeginInvoke(System.String,System.String,System.Object[],System.AsyncCallback,System.Object).**

Invoke

[C#] protected object Invoke(string methodName, string requestUrl, object[] parameters);

[C++] protected: Object* Invoke(String* methodName, String* requestUrl, Object* parameters __gc[]);

[VB] Protected Function Invoke(ByVal methodName As String, ByVal requestUrl As String, ByVal parameters() As Object) As Object

[JScript] protected function Invoke(methodName : String, requestUrl : String, parameters : Object[]) : Object;

Description

Invokes a Web Service method using HTTP.

Return Value: An array of objects containing the return value and any by-reference or out parameters of the derived class method.

The *methodName* is used to find the types of the parameters and return values of the method that is invoking **System.Web.Services.Protocols.HttpSimpleClientProtocol.Invoke(System.String,System.String,System.Object[])** . It is also used to find custom attributes which may have been added to the method. The name of the Web Service method in the derived class that is invoking **System.Web.Services.Protocols.HttpSimpleClientProtocol.Invoke(System.String,System.String,System.Object[])**. The URL of the Web Service method the client is requesting. An array of objects containing the parameters to pass to the remote Web service. The order of the values in the array correspond to the order of the parameters in the calling method of the derived class.

HttpWebClientProtocol class (System.Web.Services.Protocols)

ToString

Description

When overridden in a derived class, provides support for client proxies invoking Web Services using HTTP.

ASP.NET incorporates two distinct functionalities of Web Services: building ASP.NET Web Services and building Web Service clients. If you build a Web Service client using ASP.NET, you must create a proxy class deriving indirectly or directly from **System.Web.Services.Protocols.HttpWebClientProtocol** for the Web Service you want to call.

HttpWebClientProtocol

Example Syntax:

ToString

```
[C#] protected HttpWebClientProtocol();
[C++] protected: HttpWebClientProtocol();
[VB] Protected Sub New()
[JScript] protected function HttpWebClientProtocol();
```

Description

Initializes a new instance of the **System.Web.Services.Protocols.HttpWebClientProtocol** class.

AllowAutoRedirect

ToString

[C#] public bool AllowAutoRedirect {get; set;}

[C++] public: __property bool get_AllowAutoRedirect();public: __property void set_AllowAutoRedirect(bool);

[VB] Public Property AllowAutoRedirect As Boolean

[JScript] public function get AllowAutoRedirect() : Boolean;public function set AllowAutoRedirect(Boolean);

Description

Gets or sets whether the client automatically follows server redirects.

If a client sends authentification information, such as a user name and password, you do not want to enable the server to redirect, because this can compromise security.

ClientCertificates

ToString

[C#] public X509CertificateCollection ClientCertificates {get;}

[C++] public: __property X509CertificateCollection* get_ClientCertificates();

[VB] Public ReadOnly Property ClientCertificates As X509CertificateCollection

[JScript] public function get ClientCertificates() : X509CertificateCollection;

Description

Gets the collection of client certificates.

Allows a client to pass one or more client certificates, also known as Authenticode X.509 v.3 certificates, when calling a Web Service method. If the Web Service method has been configured to use client certificates, a client certificate can be used as one mechanism for authenticating a client. For details on setting up client certificates, see the Internet Information Server (IIS) documentation.

ConnectionGroupName

Container

CookieContainer

ToString

Description

Gets or sets the collection of cookies.

If a Web Service method uses session state, then a cookie is passed back to the Web Service client that uniquely identifies the session for that Web Service client. In order for the Web Service client to receive that cookie, a new instance of **System.Net.CookieContainer** must be created and assigned to the **System.Web.Services.Protocols.HttpWebClientProtocol.CookieContainer** property before calling the Web Service method.

Credentials

DesignMode

Events

PreAuthenticate

Proxy

ToString

Description

Gets or sets proxy information for making a Web Service request through a firewall.

Use the **System.Web.Services.Protocols.HttpWebClientProtocol.Proxy** property if a client needs to use different proxy settings than those in the system settings. You can use the **System.Net.WebProxy** class to set the proxy settings, because it implements **System.Net.IWebProxy** .

RequestEncoding

Site

Timeout

Url

UserAgent

ToString

Description

Gets or sets the value for the user agent header that is sent with each request.

The user agent string allows a Web server to identify the client.

GetWebRequest

[C#] protected override WebRequest GetWebRequest(Uri uri);

[C++] protected: WebRequest* GetWebRequest(Uri* uri);

[VB] Overrides Protected Function GetWebRequest(ByVal uri As Uri) As WebRequest

[JScript] protected override function GetWebRequest(uri : Uri) : WebRequest;

Description

Creates a **System.Net.WebRequest** instance for the specified URI.

Return Value: The **System.Net.WebRequest** instance. The **System.Uri** for creating the **System.Net.WebRequest**.

GetWebResponse

[C#] protected override WebResponse GetWebResponse(WebRequest request);

[C++] protected: WebResponse* GetWebResponse(WebRequest* request);

[VB] Overrides Protected Function GetWebResponse(ByVal request As WebRequest) As WebResponse

[JScript] protected override function GetWebResponse(request : WebRequest) : WebResponse; Returns a response from a request to a Web Service method.

Description

Returns a response from a synchronous request to a Web Service method.

Return Value: The **System.Net.WebResponse** instance. The **System.Net.WebRequest** to get the response from.

GetWebResponse

[C#] protected override WebResponse GetWebResponse(WebRequest request, IAsyncResult result);

[C++] protected: WebResponse* GetWebResponse(WebRequest* request, IAsyncResult* result);

[VB] Overrides Protected Function GetWebResponse(ByVal request As WebRequest, ByVal result As IAsyncResult) As WebResponse

[JScript] protected override function GetWebResponse(request : WebRequest, result : IAsyncResult) : WebResponse;

Description

Returns a response from an asynchronous request to a Web Service method.

Return Value: The **System.Net.WebResponse** instance. The **System.Net.WebRequest** to get the response from. The **System.IAsyncResult** to pass to **System.Net.HttpWebRequest.EndGetResponse(System.IAsyncResult)**. when the response has completed.

LogicalMethodInfo class (System.Web.Services.Protocols)

ToString

Description

Represents the attributes and metadata for a Web Service method. This class cannot be inherited.

System.Web.Services.Protocols.LogicalMethodInfo is used primarily by a SOAP extension to interrogate the details of the Web Service method an SOAP extension is configured to run with. Depending on how the SOAP extension is configured to run, the SOAP extension can find out details about the Web Service method in the **System.Web.Services.Protocols.SoapExtension.GetInitializer(System.Web.Services.Protocols.LogicalMethodInfo,System.Web.Services.Protocols.SoapExtensionAttribute)** method of **System.Web.Services.Protocols.SoapExtension** that takes an **System.Web.Services.Protocols.LogicalMethodInfo** . The **System.Web.Services.Protocols.LogicalMethodInfo** provides details such as the Web Service method's parameters by accessing the **System.Web.Services.Protocols.LogicalMethodInfo.Parameters** property and any custom attributes applied to the Web Service method using the **System.Web.Services.Protocols.LogicalMethodInfo.GetCustomAttributes(System.Type)** property.

LogicalMethodInfo

Example Syntax:

ToString

[C#] public LogicalMethodInfo(MethodInfo methodInfo);

[C++] public: LogicalMethodInfo(MethodInfo* methodInfo);

[VB] Public Sub New(ByVal methodInfo As MethodInfo)

[JScript] public function LogicalMethodInfo(methodInfo : MethodInfo); Initializes a new instance of the **System.Web.Services.Protocols.LogicalMethodInfo** class.

Description

Initializes a new instance of the **System.Web.Services.Protocols.LogicalMethodInfo** class with the **System.Reflection.MethodInfo** object passed. A **System.Reflection.MethodInfo** to initialize the properties of **System.Web.Services.Protocols.LogicalMethodInfo** common to **System.Reflection.MethodInfo**.

AsyncCallbackParameter

ToString

[C#] public ParameterInfo AsyncCallbackParameter {get;}

[C++] public: __property ParameterInfo* get_AsyncCallbackParameter();

[VB] Public ReadOnly Property AsyncCallbackParameter As ParameterInfo

[JScript] public function get AsyncCallbackParameter() : ParameterInfo;

Description

Gets the parameter information for the *AsyncCallback* parameter of a Begin method in an asynchronous invocation.

The asynchronous design pattern in the common language runtime involves calling a **Begin** method to start the asynchronous method invocation and an **End** method to complete the invocation. The **Begin** method takes two additional parameters besides the parameters defined by the method: one for a delegate and one for any state information that needs to be passed on to the delegate. This property represents the parameter for the delegate with a parameter name of *AsyncCallback* .

AsyncResultParameter

ToString

```
[C#] public ParameterInfo AsyncResultParameter {get;}
[C++] public: __property ParameterInfo* get_AsyncResultParameter();
[VB] Public ReadOnly Property AsyncResultParameter As ParameterInfo
[JScript] public function get AsyncResultParameter() : ParameterInfo;
```

Description

Gets the return value of a **Begin** asynchronous method invocation.

The asynchronous design pattern in the common language runtime involves calling a **Begin** method to start the asynchronous method invocation and an **End** method to complete the invocation. The **Begin** method typically returns immediately with an object implementing the **System.IAsyncResult** interface, which can then be passed to the **End** method at a later time to complete the asynchronous method invocation. The returned object implementing the **System.IAsyncResult** interface is represented by this property.

AsyncStateParameter

ToString

```
[C#] public ParameterInfo AsyncStateParameter {get;}
[C++] public: __property ParameterInfo* get_AsyncStateParameter();
[VB] Public ReadOnly Property AsyncStateParameter As ParameterInfo
```

[JScript] public function get AsyncStateParameter() : ParameterInfo;

Description

Gets the parameter information for the *AsyncState* parameter of a **Begin** method in an asynchronous invocation.

The asynchronous design pattern in the common language runtime involves calling a **Begin** method to start the asynchronous method invocation and an **End** method to complete the invocation. The **Begin** method takes two additional parameters besides the parameters defined by the method: one for a delegate and one for any state information that needs to be passed on to the delegate. This property represents the state information that needs to be passed into the delegate.

BeginMethodInfo

ToString

[C#] public MethodInfo BeginMethodInfo {get;}

[C++] public: __property MethodInfo* get_BeginMethodInfo();

[VB] Public ReadOnly Property BeginMethodInfo As MethodInfo

[JScript] public function get BeginMethodInfo() : MethodInfo;

Description

Gets the attributes and metadata for a **Begin** method of an asynchronous invocation to a method.

CustomAttributeProvider

ToString

[C#] public ICustomAttributeProvider CustomAttributeProvider {get;}

[C++] public: __property ICustomAttributeProvider* get_CustomAttributeProvider();

[VB] Public ReadOnly Property CustomAttributeProvider As ICustomAttributeProvider

[JScript] public function get CustomAttributeProvider() : ICustomAttributeProvider;

Description

Gets the custom attributes applied to the method.

DeclaringType

ToString

[C#] public Type DeclaringType {get;}

[C++] public: __property Type* get_DeclaringType();

[VB] Public ReadOnly Property DeclaringType As Type

[JScript] public function get DeclaringType() : Type;

Description

Gets the class that declares the method represented by the instance of **System.Web.Services.Protocols.LogicalMethodInfo** .

The **System.Web.Services.Protocols.LogicalMethodInfo.DeclaringType** property retrieves a reference to a **System.Type** for the type that declares this member. A member of a class (or interface) is either declared or inherited from a base class (or interface). The returned **System.Type** might not be the same as the **System.Type** of the class implementing the Web Service (if that class derives from a base class and the method represented by this class is declared in that base class then the **System.Type** returned is the base class).

EndMethodInfo

ToString

[C#] public MethodInfo EndMethodInfo {get;}

[C++] public: __property MethodInfo* get_EndMethodInfo();

[VB] Public ReadOnly Property EndMethodInfo As MethodInfo

[JScript] public function get EndMethodInfo() : MethodInfo;

Description

Gets the attributes and metadata for an **End** method of an asynchronous invocation to a method.

InParameters

ToString

[C#] public ParameterInfo[] InParameters {get;}

[C++] public: __property ParameterInfo* get_InParameters();

[VB] Public ReadOnly Property InParameters As ParameterInfo ()

[JScript] public function get InParameters() : ParameterInfo[];

Description

Gets the parameters passed into the method represented by the instance of **System.Web.Services.Protocols.LogicalMethodInfo** .

Use an instance of **System.Reflection.ParameterInfo** to obtain information about the parameter's data type, default value, and so on.

IsAsync

ToString

```
[C#] public bool IsAsync {get;}
[C++] public: __property bool get_IsAsync();
[VB] Public ReadOnly Property IsAsync As Boolean
[JScript] public function get IsAsync() : Boolean;
```

Description

Gets a value indicating whether the method represented by the instance of **System.Web.Services.Protocols.LogicalMethodInfo** is invoked asynchronously.

IsVoid

ToString

```
[C#] public bool IsVoid {get;}
[C++] public: __property bool get_IsVoid();
[VB] Public ReadOnly Property IsVoid As Boolean
[JScript] public function get IsVoid() : Boolean;
```

Description

Gets a value indicating whether the return type for the method represented by the instance of **System.Web.Services.Protocols.LogicalMethodInfo** is **void** .

MethodInfo

ToString

[C#] public MethodInfo MethodInfo {get;}

[C++] public: __property MethodInfo* get_MethodInfo();

[VB] Public ReadOnly Property MethodInfo As MethodInfo

[JScript] public function get MethodInfo() : MethodInfo;

Description

Gets the attributes and metadata for a synchronous method.

Name

ToString

[C#] public string Name {get;}

[C++] public: __property String* get_Name();

[VB] Public ReadOnly Property Name As String

[JScript] public function get Name() : String;

Description

Gets the name of the method represented by this instance.

OutParameters

ToString

```
[C#] public ParameterInfo[] OutParameters {get;}
[C++] public: __property ParameterInfo* get_OutParameters();
[VB] Public ReadOnly Property OutParameters As ParameterInfo ()
[JScript] public function get OutParameters() : ParameterInfo[];
```

Description

Gets the out parameters for the method.

Use an instance of **System.Reflection.ParameterInfo** to obtain information about the parameter's data type, default value, and so on.

Parameters

ToString

```
[C#] public ParameterInfo[] Parameters {get;}
[C++] public: __property ParameterInfo* get_Parameters();
[VB] Public ReadOnly Property Parameters As ParameterInfo ()
[JScript] public function get Parameters() : ParameterInfo[];
```

Description

Gets the parameters for the method.

Use an instance of **System.Reflection.ParameterInfo** to obtain information about the parameter's data type, default value, and so on.

ReturnType

ToString

[C#] public Type ReturnType {get;}

[C++] public: __property Type* get_ReturnType();

[VB] Public ReadOnly Property ReturnType As Type

[JScript] public function get ReturnType() : Type;

Description

Gets the return type of this method.

ReturnTypeCustomAttributeProvider

ToString

[C#] public ICustomAttributeProvider ReturnTypeCustomAttributeProvider {get;}

[C++] public: __property ICustomAttributeProvider* get_ReturnTypeCustomAttributeProvider();

[VB] Public ReadOnly Property ReturnTypeCustomAttributeProvider As ICustomAttributeProvider

[JScript] public function get ReturnTypeCustomAttributeProvider() : ICustomAttributeProvider;

Description

Gets the custom attributes for the return type.

BeginInvoke

[C#] public IAsyncResult BeginInvoke(object target, object[] values, AsyncCallback callback, object asyncState);

[C++] public: IAsyncResult* BeginInvoke(Object* target, Object* values __gc[], AsyncCallback* callback, Object* asyncState);

[VB] Public Function BeginInvoke(ByVal target As Object, ByVal values() As Object, ByVal callback As AsyncCallback, ByVal asyncState As Object) As IAsyncResult

[JScript] public function BeginInvoke(target : Object, values : Object[], callback : AsyncCallback, asyncState : Object) : IAsyncResult;

Description

Begins an asynchronous invocation of the method represented by this **System.Web.Services.Protocols.LogicalMethodInfo** instance.

Return Value: An **System.IAsyncResult** which is passed to **System.Web.Services.Protocols.LogicalMethodInfo.EndInvoke(System.Object,System.IAsyncResult)** to obtain the return values from the remote method call. The instance of the object to invoke the method on. An argument list for the invoked method. This is an array of objects with the same number, order, and type as the parameters of the method. If the method does not require any parameters, *values* should be **null**. The delegate to call when the asynchronous invoke is complete. If *callback* is **null**, the delegate is not called. State information that is passed on to the delegate.

Create

[C#] public static LogicalMethodInfo[] Create(MethodInfo[] methodInfos);

[C++] public: static LogicalMethodInfo* Create(MethodInfo* methodInfos[]) [];

[VB] Public Shared Function Create(ByVal methodInfos() As MethodInfo) As LogicalMethodInfo()

[JScript] public static function Create(methodInfos : MethodInfo[]) : LogicalMethodInfo[]; Creates an array of **System.Web.Services.Protocols.LogicalMethodInfo** , given an array of **System.Reflection.MethodInfo** .

Description

Creates an array of **System.Web.Services.Protocols.LogicalMethodInfo** , given an array of **System.Reflection.MethodInfo** that can contain information about both asynchronous and synchronous methods.

Return Value: An array of **System.Web.Services.Protocols.LogicalMethodInfo** , representing the methods within *methodInfos* . An array of **System.Reflection.MethodInfo** representing the asynchronous and synchronous methods to create **System.Web.Services.Protocols.LogicalMethodInfo** objects for.

Create

[C#] public static LogicalMethodInfo[] Create(MethodInfo[] methodInfos, LogicalMethodTypes types);

[C++] public: static LogicalMethodInfo* Create(MethodInfo* methodInfos[], LogicalMethodTypes types) [];

[VB] Public Shared Function Create(ByVal methodInfos() As MethodInfo, ByVal types As LogicalMethodTypes) As LogicalMethodInfo()

[JScript] public static function Create(methodInfos : MethodInfo[], types :

LogicalMethodTypes) : LogicalMethodInfo[];

Description

Creates an array of **System.Web.Services.Protocols.LogicalMethodInfo** , given an array of **System.Reflection.MethodInfo** , where the returned array of **System.Web.Services.Protocols.LogicalMethodInfo** can be restricted to only asynchronous or synchronous methods.

Return Value: An array of **System.Web.Services.Protocols.LogicalMethodInfo** representing the methods within *methodInfos,* filtered by the value of *types* . An array of **System.Reflection.MethodInfo** representing the asynchronous and synchronous methods to create **System.Web.Services.Protocols.LogicalMethodInfo** objects for. A bitwise combination of the **System.Web.Services.Protocols.LogicalMethodTypes** values. Determines whether just asynchronous or synchronous methods or both are included in the returned array of **System.Web.Services.Protocols.LogicalMethodInfo**.

EndInvoke

[C#] public object[] EndInvoke(object target, IAsyncResult asyncResult);

[C++] public: Object* EndInvoke(Object* target, IAsyncResult* asyncResult) __gc[];

[VB] Public Function EndInvoke(ByVal target As Object, ByVal asyncResult As IAsyncResult) As Object()

[JScript] public function EndInvoke(target : Object, asyncResult : IAsyncResult) : Object[];

Description

Ends an asynchronous invocation of the method represented by this **System.Web.Services.Protocols.LogicalMethodInfo** instance.

Return Value: An array of objects containing the return value and any by-reference or out parameters of the derived class method. The instance of the object to invoke the method on. The **System.IAsyncResult** returned from **System.Web.Services.Protocols.LogicalMethodInfo.BeginInvoke(System.Object,System.Object[],System.AsyncCallback,System.Object)**.

GetCustomAttribute

[C#] public object GetCustomAttribute(Type type);

[C++] public: Object* GetCustomAttribute(Type* type);

[VB] Public Function GetCustomAttribute(ByVal type As Type) As Object

[JScript] public function GetCustomAttribute(type : Type) : Object;

Description

Returns the first custom attribute applied to the type, if there are custom attributes applied to the type.

Return Value: An **System.Object** containing the first custom attribute applied to *type* . The **System.Type** that the custom attributes are applied to.

GetCustomAttributes

[C#] public object[] GetCustomAttributes(Type type);

[C++] public: Object* GetCustomAttributes(Type* type) __gc[];

```
[VB] Public Function GetCustomAttributes(ByVal type As Type) As Object()
[JScript] public function GetCustomAttributes(type : Type) : Object[];
```

Description

Returns the custom attributes applied to the specified type.

Return Value: An array of **System.Object** containing the custom attributes applied to *type* . The **System.Type** to get the custom attributes applied to.

Invoke

```
[C#] public object[] Invoke(object target, object[] values);
[C++] public: Object* Invoke(Object* target, Object* values __gc[]) __gc[];
[VB] Public Function Invoke(ByVal target As Object, ByVal values() As Object) As Object()
[JScript] public function Invoke(target : Object, values : Object[]) : Object[];
```

Description

Invokes the method represented by this **System.Web.Services.Protocols.LogicalMethodInfo** instance.

Return Value: An array of type **System.Object** representing the return value and out parameters of the invoked method. The instance of the object to invoke the method on. An argument list for the invoked method. This is an array of objects with the same number, order, and type as the parameters of the method. If the method does not require any parameters, *values* should be **null**.

IsBeginMethod

[C#] public static bool IsBeginMethod(MethodInfo methodInfo);

[C++] public: static bool IsBeginMethod(MethodInfo* methodInfo);

[VB] Public Shared Function IsBeginMethod(ByVal methodInfo As MethodInfo) As Boolean

[JScript] public static function IsBeginMethod(methodInfo : MethodInfo) : Boolean;

Description

Returns a value indicating whether the method passed in represents a begin method of an asynchronous invocation.

Return Value: **true** if *methodInfo* is a begin method of an asynchronous invocation; otherwise, **false** . The **System.Reflection.MethodInfo** to determine if it is a begin method of an asynchronous invocation.

IsEndMethod

[C#] public static bool IsEndMethod(MethodInfo methodInfo);

[C++] public: static bool IsEndMethod(MethodInfo* methodInfo);

[VB] Public Shared Function IsEndMethod(ByVal methodInfo As MethodInfo) As Boolean

[JScript] public static function IsEndMethod(methodInfo : MethodInfo) : Boolean;

Description

Returns a value indicating whether the method passed in represents a end method of an asynchronous invocation.

Return Value: **true** if *methodInfo* is a end method of an asynchronous invocation; otherwise, **false** . The **System.Reflection.MethodInfo** to determine if it is a end method of an asynchronous invocation.

ToString

[C#] public override string ToString();

[C++] public: String* ToString();

[VB] Overrides Public Function ToString() As String

[JScript] public override function ToString() : String;

Description

Returns a **System.String** that represents the current **System.Web.Services.Protocols.LogicalMethodInfo** .

Return Value: A **System.String** that represents the current **System.Web.Services.Protocols.LogicalMethodInfo** .

LogicalMethodTypes enumeration (System.Web.Services.Protocols)

ToString

Description

Specifies how the Web Service method was invoked.

ToString

[C#] public const LogicalMethodTypes Async;

[C++] public: const LogicalMethodTypes Async;

[VB] Public Const Async As LogicalMethodTypes

[JScript] public var Async : LogicalMethodTypes;

Description

Specifies the Web Service method is invoked asynchronously.

ToString

[C#] public const LogicalMethodTypes Sync;

[C++] public: const LogicalMethodTypes Sync;

[VB] Public Const Sync As LogicalMethodTypes

[JScript] public var Sync : LogicalMethodTypes;

Description

Specifies the Web Service method is invoked synchronously.

MatchAttribute class (System.Web.Services.Protocols)

ToString

Description

Represents the attributes of a match made using text pattern matching. This class cannot be inherited.

Text pattern matching allows a Web Service to leverage existing HTML content by parsing it using regular expressions. A Web Service specifies the content it wants to parse in a Service Description using match elements. These match elements specify several items: the regular expression for parsing the contents of an existing HTML page, whether the parsing must case-insensitive, and how many instances of content that matches the regular expression should be returned. When a client builds a proxy class using the Wsdl.exe tool, methods on the proxy class include a **System.Web.Services.Protocols.MatchAttribute** detailing the match elements found in the Service Description.

MatchAttribute

Example Syntax:

ToString

[C#] public MatchAttribute(string pattern);

[C++] public: MatchAttribute(String* pattern);

[VB] Public Sub New(ByVal pattern As String)

[JScript] public function MatchAttribute(pattern : String);

Description

Initializes a new instance of the **System.Web.Services.Protocols.MatchAttribute** class with the specified pattern.

Use this constructor to create and initialize a new instance of the **System.Web.Services.Protocols.MatchAttribute** class using the specified pattern. A string that represents the pattern to match.

Capture

ToString

[C#] public int Capture {get; set;}

[C++] public: __property int get_Capture();public: __property void set_Capture(int);

[VB] Public Property Capture As Integer

[JScript] public function get Capture() : int;public function set Capture(int);

Description

Gets or sets a value that represents the index of a match within a grouping.

Group

ToString

[C#] public int Group {get; set;}

[C++] public: __property int get_Group();public: __property void set_Group(int);

[VB] Public Property Group As Integer

[JScript] public function get Group() : int;public function set Group(int);

Description

Gets or sets a value that represents a grouping of related matches.

Use the **System.Web.Services.Protocols.MatchAttribute.Group** property to specify a group that a match belongs to.

IgnoreCase

ToString

[C#] public bool IgnoreCase {get; set;}

[C++] public: __property bool get_IgnoreCase();public: __property void set_IgnoreCase(bool);

[VB] Public Property IgnoreCase As Boolean

[JScript] public function get IgnoreCase() : Boolean;public function set IgnoreCase(Boolean);

Description

Gets or sets a value that indicates whether the pattern to match is case insensitive.

MaxRepeats

ToString

[C#] public int MaxRepeats {get; set;}

[C++] public: __property int get_MaxRepeats();public: __property void set_MaxRepeats(int);

[VB] Public Property MaxRepeats As Integer

[JScript] public function get MaxRepeats() : int;public function set MaxRepeats(int);

Description

Gets or sets the maximum number of values to return from the match.

A value of 1 returns only the first match. A value of -1 returns all matches. Additionally, a value of -1 equates to an '*' in a regular expression.

Pattern

ToString

[C#] public string Pattern {get; set;}

[C++] public: __property String* get_Pattern();public: __property void set_Pattern(String*);

[VB] Public Property Pattern As String

[JScript] public function get Pattern() : String;public function set Pattern(String);

Description

Gets or sets a regular expression that represents the pattern to match.

Use the **System.Web.Services.Protocols.MatchAttribute.Pattern** property to specify a regular expression that represents the value to match.

TypeId

MimeFormatter class (System.Web.Services.Protocols)

ToString

Description

MimeFormatter

Example Syntax:

ToString

[C#] protected MimeFormatter();

[C++] protected: MimeFormatter();

[VB] Protected Sub New()

[JScript] protected function MimeFormatter();

CreateInstance

[C#] public static MimeFormatter CreateInstance(Type type, object initializer);

[C++] public: static MimeFormatter* CreateInstance(Type* type, Object* initializer);

[VB] Public Shared Function CreateInstance(ByVal type As Type, ByVal initializer As Object) As MimeFormatter

[JScript] public static function CreateInstance(type : Type, initializer : Object) : MimeFormatter;

Description

GetInitializer

[C#] public abstract object GetInitializer(LogicalMethodInfo methodInfo);

[C++] public: virtual Object* GetInitializer(LogicalMethodInfo* methodInfo) = 0;

[VB] MustOverride Public Function GetInitializer(ByVal methodInfo As LogicalMethodInfo) As Object

[JScript] public abstract function GetInitializer(methodInfo : LogicalMethodInfo) : Object;

Description

GetInitializer

[C#] public static object GetInitializer(Type type, LogicalMethodInfo

methodInfo);

[C++] public: static Object* GetInitializer(Type* type, LogicalMethodInfo* methodInfo);

[VB] Public Shared Function GetInitializer(ByVal type As Type, ByVal methodInfo As LogicalMethodInfo) As Object

[JScript] public static function GetInitializer(type : Type, methodInfo : LogicalMethodInfo) : Object;

Description

GetInitializers

[C#] public virtual object[] GetInitializers(LogicalMethodInfo[] methodInfos);

[C++] public: virtual Object* GetInitializers(LogicalMethodInfo* methodInfos[]) __gc[];

[VB] Overridable Public Function GetInitializers(ByVal methodInfos() As LogicalMethodInfo) As Object()

[JScript] public function GetInitializers(methodInfos : LogicalMethodInfo[]) : Object[];

Description

GetInitializers

[C#] public static object[] GetInitializers(Type type, LogicalMethodInfo[]

methodInfos);

[C++] public: static Object* GetInitializers(Type* type, LogicalMethodInfo* methodInfos[]) __gc[];

[VB] Public Shared Function GetInitializers(ByVal type As Type, ByVal methodInfos() As LogicalMethodInfo) As Object()

[JScript] public static function GetInitializers(type : Type, methodInfos : LogicalMethodInfo[]) : Object[];

Description

Initialize

[C#] public abstract void Initialize(object initializer);

[C++] public: virtual void Initialize(Object* initializer) = 0;

[VB] MustOverride Public Sub Initialize(ByVal initializer As Object)

[JScript] public abstract function Initialize(initializer : Object);

Description

MimeParameterReader class (System.Web.Services.Protocols)

ToString

Description

MimeParameterReader

Example Syntax:

ToString

[C#] protected MimeParameterReader();

[C++] protected: MimeParameterReader();

[VB] Protected Sub New()

[JScript] protected function MimeParameterReader();

Read

[C#] public abstract object[] Read(HttpRequest request);

[C++] public: virtual Object* Read(HttpRequest* request) __gc[] = 0;

[VB] MustOverride Public Function Read(ByVal request As HttpRequest) As Object()

[JScript] public abstract function Read(request : HttpRequest) : Object[];

Description

MimeParameterWriter class (System.Web.Services.Protocols)

ToString

Description

MimeParameterWriter

Example Syntax:

ToString

[C#] protected MimeParameterWriter();

[C++] protected: MimeParameterWriter();

[VB] Protected Sub New()

[JScript] protected function MimeParameterWriter();

RequestEncoding

ToString

[C#] public virtual Encoding RequestEncoding {get; set;}

[C++] public: __property virtual Encoding* get_RequestEncoding();public: __property virtual void set_RequestEncoding(Encoding*);

[VB] Overridable Public Property RequestEncoding As Encoding

[JScript] public function get RequestEncoding() : Encoding;public function set RequestEncoding(Encoding);

Description

UsesWriteRequest

ToString

[C#] public virtual bool UsesWriteRequest {get;}

[C++] public: __property virtual bool get_UsesWriteRequest();

[VB] Overridable Public ReadOnly Property UsesWriteRequest As Boolean

[JScript] public function get UsesWriteRequest() : Boolean;

Description

GetRequestUrl

[C#] public virtual string GetRequestUrl(string url, object[] parameters);

[C++] public: virtual String* GetRequestUrl(String* url, Object* parameters __gc[]);

[VB] Overridable Public Function GetRequestUrl(ByVal url As String, ByVal parameters() As Object) As String

[JScript] public function GetRequestUrl(url : String, parameters : Object[]) : String;

Description

InitializeRequest

[C#] public virtual void InitializeRequest(WebRequest request, object[] values);

[C++] public: virtual void InitializeRequest(WebRequest* request, Object* values __gc[]);

[VB] Overridable Public Sub InitializeRequest(ByVal request As WebRequest, ByVal values() As Object)

[JScript] public function InitializeRequest(request : WebRequest, values : Object[]);

Description

WriteRequest

```
[C#] public virtual void WriteRequest(Stream requestStream, object[] values);
[C++] public: virtual void WriteRequest(Stream* requestStream, Object* values __gc[]);
[VB] Overridable Public Sub WriteRequest(ByVal requestStream As Stream, ByVal values() As Object)
[JScript] public function WriteRequest(requestStream : Stream, values : Object[]);
```

Description

MimeReturnReader class (System.Web.Services.Protocols)

WriteRequest

Description

MimeReturnReader

Example Syntax:

WriteRequest

```
[C#] protected MimeReturnReader();
```

[C++] protected: MimeReturnReader();

[VB] Protected Sub New()

[JScript] protected function MimeReturnReader();

Read

[C#] public abstract object Read(WebResponse response, Stream responseStream);

[C++] public: virtual Object* Read(WebResponse* response, Stream* responseStream) = 0;

[VB] MustOverride Public Function Read(ByVal response As WebResponse, ByVal responseStream As Stream) As Object

[JScript] public abstract function Read(response : WebResponse, responseStream : Stream) : Object;

Description

NopReturnReader class (System.Web.Services.Protocols)

ToString

Description

NopReturnReader

Example Syntax:

ToString

```
[C#] public NopReturnReader();
[C++] public: NopReturnReader();
[VB] Public Sub New()
[JScript] public function NopReturnReader();
```

GetInitializer

```
[C#] public override object GetInitializer(LogicalMethodInfo methodInfo);
[C++] public: Object* GetInitializer(LogicalMethodInfo* methodInfo);
[VB] Overrides Public Function GetInitializer(ByVal methodInfo As LogicalMethodInfo) As Object
[JScript] public override function GetInitializer(methodInfo : LogicalMethodInfo) : Object;
```

Description

Initialize

```
[C#] public override void Initialize(object initializer);
[C++] public: void Initialize(Object* initializer);
[VB] Overrides Public Sub Initialize(ByVal initializer As Object)
[JScript] public override function Initialize(initializer : Object);
```

Description

Read

[C#] public override object Read(WebResponse response, Stream responseStream);

[C++] public: Object* Read(WebResponse* response, Stream* responseStream);

[VB] Overrides Public Function Read(ByVal response As WebResponse, ByVal responseStream As Stream) As Object

[JScript] public override function Read(response : WebResponse, responseStream : Stream) : Object;

Description

PatternMatcher class (System.Web.Services.Protocols)

ToString

Description

PatternMatcher

Example Syntax:

ToString

[C#] public PatternMatcher(Type type);

[C++] public: PatternMatcher(Type* type);

[VB] Public Sub New(ByVal type As Type)

[JScript] public function PatternMatcher(type : Type);

Description

Match

[C#] public object Match(string text);

[C++] public: Object* Match(String* text);

[VB] Public Function Match(ByVal text As String) As Object

[JScript] public function Match(text : String) : Object;

Description

SoapClientMessage class (System.Web.Services.Protocols)

ToString

Description

Represents the data in a SOAP request sent or a SOAP response received by a Web Service client at a specific **System.Web.Services.Protocols.SoapMessageStage** for a Web Service method.

Action

ToString

[C#] public override string Action {get;}

[C++] public: __property virtual String* get_Action();

[VB] Overrides Public ReadOnly Property Action As String

[JScript] public function get Action() : String;

Description

Gets the SOAPAction HTTP request header field for the SOAP request or SOAP response.

The **System.Web.Services.Protocols.SoapClientMessage.Action** property is availavable in any **System.Web.Services.Protocols.SoapMessageStage** .

Client

ToString

[C#] public SoapHttpClientProtocol Client {get;}

[C++] public: __property SoapHttpClientProtocol* get_Client();

[VB] Public ReadOnly Property Client As SoapHttpClientProtocol

[JScript] public function get Client() : SoapHttpClientProtocol;

Description

Gets an instance of the client proxy class, which derives from **System.Web.Services.Protocols.SoapHttpClientProtocol** .

The **System.Web.Services.Protocols.SoapClientMessage.Client** property can be accessed during any **System.Web.Services.Protocols.SoapMessageStage**

.

ContentType

Exception

Headers

MethodInfo

ToString

Description

Gets a representation of the method prototype for the Web Service method for which the SOAP request is intended.

Although the **System.Web.Services.Protocols.SoapClientMessage.MethodInfo** property can be accessed during any stage, the method information is only available during **System.Web.Services.Protocols.SoapMessageStage.AfterDeserialize** and **System.Web.Services.Protocols.SoapMessageStage.BeforeSerialize** .

OneWay

ToString

[C#] public override bool OneWay {get;}

[C++] public: __property virtual bool get_OneWay();

[VB] Overrides Public ReadOnly Property OneWay As Boolean

[JScript] public function get OneWay() : Boolean;

Description

Gets a value indicating whether the client waits for the server to finish processing a Web Service method.

A **System.Web.Services.Protocols.SoapDocumentMethodAttribute** or **System.Web.Services.Protocols.SoapRpcMethodAttribute** applied to a Web Service method or Web Service client can specify whether the Web Service method is one way or not by setting the **System.Web.Services.Protocols.SoapDocumentMethodAttribute.OneWay** property of the attribute.

Stage

Stream

Url

ToString

Description

Gets the URL of the Web Service.

The **System.Web.Services.Protocols.SoapClientMessage.Url** property can be accessed during any **System.Web.Services.Protocols.SoapMessageStage**

.

EnsureInStage

[C#] protected override void EnsureInStage();

[C++] protected: void EnsureInStage();

[VB] Overrides Protected Sub EnsureInStage()

[JScript] protected override function EnsureInStage();

Description

Asserts that the current **System.Web.Services.Protocols.SoapMessageStage** stage is a stage where in parameters are available. If not, an exception is thrown.

For Web Service clients, the in parameters are available prior to the SOAP request serialization process in the **System.Web.Services.Protocols.SoapMessageStage.BeforeSerialize** stage. The **System.InvalidOperationException** is thrown if **System.Web.Services.Protocols.SoapClientMessage.EnsureInStage** method is invoked in any other **System.Web.Services.Protocols.SoapMessageStage** .

EnsureOutStage

```
[C#] protected override void EnsureOutStage();
[C++] protected: void EnsureOutStage();
[VB] Overrides Protected Sub EnsureOutStage()
[JScript] protected override function EnsureOutStage();
```

Description

Asserts that the current **System.Web.Services.Protocols.SoapMessageStage** stage is a stage where out parameters are available. If not, an exception is thrown.

For Web Service clients, the out parameters are available after the SOAP response deserialization process in the **System.Web.Services.Protocols.SoapMessageStage.AfterDeserialize** stage. The **System.InvalidOperationException** is thrown if

System.Web.Services.Protocols.SoapClientMessage.EnsureOutStage method is invoked in any other **System.Web.Services.Protocols.SoapMessageStage** .

SoapDocumentMethodAttribute class (System.Web.Services.Protocols)

ToString

Description

Applying the optional **System.Web.Services.Protocols.SoapDocumentMethodAttribute** to a Web Service method alters the format of the SOAP request or response sent to and from a Web Service method.

Web Services Description Language (WSDL) defines two styles for how a Web Service method, which it calls an operation, can be encoded in a SOAP request or a SOAP response: RPC and Document. The Document style refers to encoding the Web Service method as described in an XSD schema. If Document style is used, the Service Description for the Web Service, which is in WSDL, defines XSD schemas for both SOAP requests and SOAP responses to the Web Service method. A Web Service set to the Document encoding style expects clients to pass the XML just as it is defined in these XSD schemas.

SoapDocumentMethodAttribute

Example Syntax:

ToString

[C#] public SoapDocumentMethodAttribute();

[C++] public: SoapDocumentMethodAttribute();

[VB] Public Sub New()

[JScript] public function SoapDocumentMethodAttribute(); Initializes a new instance of the **System.Web.Services.Protocols.SoapDocumentMethodAttribute** class.

Description

Initializes a new instance of the **System.Web.Services.Protocols.SoapDocumentMethodAttribute** class.

SoapDocumentMethodAttribute

Example Syntax:

ToString

[C#] public SoapDocumentMethodAttribute(string action);

[C++] public: SoapDocumentMethodAttribute(String* action);

[VB] Public Sub New(ByVal action As String)

[JScript] public function SoapDocumentMethodAttribute(action : String);

Description

Initializes a new instance of the **System.Web.Services.Protocols.SoapDocumentMethodAttribute** class setting the **System.Web.Services.Protocols.SoapDocumentMethodAttribute.Action** property to action. The intent of the SOAP request. Sets the **System.Web.Services.Protocols.SoapDocumentMethodAttribute.Action** property.

Action

ToString

[C#] public string Action {get; set;}

[C++] public: __property String* get_Action();public: __property void set_Action(String*);

[VB] Public Property Action As String

[JScript] public function get Action() : String;public function set Action(String);

Description

Gets or sets the intent of the SOAP request.

The **System.Web.Services.Protocols.SoapDocumentMethodAttribute.Action** property forms the SOAPAction HTTP Header Field for the HTTP Request.

Binding

ToString

[C#] public string Binding {get; set;}

[C++] public: __property String* get_Binding();public: __property void set_Binding(String*);

[VB] Public Property Binding As String

[JScript] public function get Binding() : String;public function set Binding(String);

Description

Gets or sets the binding a Web Service method is implementing a operation for.

A binding, as defined by Web Services Description Language(WSDL), is similar to an interface, in that it defines a concrete set of operations. With respect to ASP.NET Web Services, each Web Service method is an operation within a binding. Web Service methods are members of either the default binding for a Web Service or in a binding specified within a **System.Web.Services.WebServiceBindingAttribute** applied to a Web Service. A Web Service can implement multiple bindings, by applying multiple **System.Web.Services.WebServiceBindingAttribute** attributes to a Web Service.

OneWay

ToString

```
[C#] public bool OneWay {get; set;}
[C++] public: __property bool get_OneWay();public: __property void
set_OneWay(bool);
[VB] Public Property OneWay As Boolean
[JScript] public function get OneWay() : Boolean;public function set
OneWay(Boolean);
```

Description

Gets or sets whether a Web Service client waits for the Web server to finish processing a Web Service method.

When a Web Service method sets the **System.Web.Services.Protocols.SoapDocumentMethodAttribute.OneWay** property to **true** , the Web Service client does not have to wait for the Web server to finish processing the Web Service method. As soon as the Web server has deserialized the **System.Web.Services.Protocols.SoapServerMessage** , but before invoking the Web Service method, the server returns an HTTP 202 status code. A HTTP 202 status code indicates to the client that the Web server has started processing of the message. Therefore, a Web Service client receives no acknowledgment that the Web server successfully processed the message.

ParameterStyle

ToString

[C#] public SoapParameterStyle ParameterStyle {get; set;}

[C++] public: __property SoapParameterStyle get_ParameterStyle();public: __property void set_ParameterStyle(SoapParameterStyle);

[VB] Public Property ParameterStyle As SoapParameterStyle

[JScript] public function get ParameterStyle() : SoapParameterStyle;public function set ParameterStyle(SoapParameterStyle);

Description

Gets or sets whether parameters are wrapped within a single element beneath the **Body** element in the XML portion of a SOAP message.

RequestElementName

ToString

[C#] public string RequestElementName {get; set;}

[C++] public: __property String* get_RequestElementName();public: __property void set_RequestElementName(String*);

[VB] Public Property RequestElementName As String

[JScript] public function get RequestElementName() : String;public function set RequestElementName(String);

Description

Gets or sets the XML element associated with the SOAP request for a Web Service method.

The **System.Web.Services.Protocols.SoapDocumentMethodAttribute.RequestElementName** defines the XML element used to wrap the parameters beneath the **Body** element of the SOAP request when **System.Web.Services.Protocols.SoapDocumentMethodAttribute.ParameterStyle** is **System.Web.Services.Protocols.SoapParameterStyle.Wrapped** . This is reflected in the XSD schema representing the SOAP request to the Web Service method within the Web Service's Service Description.

RequestNamespace

ToString

[C#] public string RequestNamespace {get; set;}

[C++] public: __property String* get_RequestNamespace();public: __property void set_RequestNamespace(String*);

[VB] Public Property RequestNamespace As String

[JScript] public function get RequestNamespace() : String;public function set RequestNamespace(String);

Description

Gets or sets the namespace associated with the SOAP request for a Web Service method.

System.Web.Services.Protocols.SoapDocumentMethodAttribute.RequestNamespace is used in the XSD schema for the Web Service method within its Service Description.

ResponseElementName

ToString

```
[C#] public string ResponseElementName {get; set;}
[C++] public: __property String* get_ResponseElementName();public: __property void set_ResponseElementName(String*);
[VB] Public Property ResponseElementName As String
[JScript] public function get ResponseElementName() : String;public function set ResponseElementName(String);
```

Description

Gets or sets the XML element associated with the SOAP response for a Web Service method.

The **System.Web.Services.Protocols.SoapDocumentMethodAttribute.ResponseElementName** defines the XML element used to wrap the parameters beneath the **Body** element of the SOAP response when **System.Web.Services.Protocols.SoapDocumentMethodAttribute.ParameterStyle** is **System.Web.Services.Protocols.SoapParameterStyle.Wrapped** . This is reflected in the XSD schema representing the SOAP response to the Web Service method within the Web Service's Service Description.

ResponseNamespace

ToString

[C#] public string ResponseNamespace {get; set;}

[C++] public: __property String* get_ResponseNamespace();public: __property void set_ResponseNamespace(String*);

[VB] Public Property ResponseNamespace As String

[JScript] public function get ResponseNamespace() : String;public function set ResponseNamespace(String);

Description

Gets or sets the XML namespace associated with the SOAP response for a Web Service method.

The **System.Web.Services.Protocols.SoapDocumentMethodAttribute.ResponseNamespace** property is used in the XSD schema for the Web Service method in its Service Description.

TypeId

Use

ToString

Description

Gets or sets the parameter encoding for a Web Service method within the XML portion of a SOAP message.

The Web Services Description Language (WSDL) defines two parameter encoding styles: **System.Web.Services.Description.SoapBindingUse.Encoded** and **System.Web.Services.Description.SoapBindingUse.Literal** .

SoapDocumentServiceAttribute class (System.Web.Services.Protocols)

ToString

Description

Applying the optional **System.Web.Services.Protocols.SoapDocumentServiceAttribute** to a Web Service sets the default format of SOAP requests and responses sent to and from Web Service methods within the Web Service.

The **System.Web.Services.Protocols.SoapDocumentServiceAttribute** allows you to set the default encoding styles for Web Service methods within a Web Service. If an individual Web Service method needs to change these defaults, apply a **System.Web.Services.Protocols.SoapDocumentMethodAttribute** to that Web Service method.

SoapDocumentServiceAttribute

Example Syntax:

ToString

[C#] public SoapDocumentServiceAttribute();

[C++] public: SoapDocumentServiceAttribute();

[VB] Public Sub New()

[JScript] public function SoapDocumentServiceAttribute(); Initializes a new instance of the **System.Web.Services.Protocols.SoapDocumentServiceAttribute** class.

Description

Initializes a new instance of the **System.Web.Services.Protocols.SoapDocumentServiceAttribute** class setting all properties to their defaults.

SoapDocumentServiceAttribute

Example Syntax:

ToString

[C#] public SoapDocumentServiceAttribute(SoapBindingUse use);

[C++] public: SoapDocumentServiceAttribute(SoapBindingUse use);

[VB] Public Sub New(ByVal use As SoapBindingUse)

[JScript] public function SoapDocumentServiceAttribute(use : SoapBindingUse);

Description

Initializes a new instance of the **System.Web.Services.Protocols.SoapDocumentServiceAttribute** class setting the parameter encoding. The parameter encoding of the Web Service. Sets the **System.Web.Services.Protocols.SoapDocumentServiceAttribute.Use** property.

SoapDocumentServiceAttribute

Example Syntax:

ToString

[C#] public SoapDocumentServiceAttribute(SoapBindingUse use, SoapParameterStyle paramStyle);

[C++] public: SoapDocumentServiceAttribute(SoapBindingUse use, SoapParameterStyle paramStyle);

[VB] Public Sub New(ByVal use As SoapBindingUse, ByVal paramStyle As SoapParameterStyle)

[JScript] public function SoapDocumentServiceAttribute(use : SoapBindingUse, paramStyle : SoapParameterStyle);

Description

Initializes a new instance of the **System.Web.Services.Protocols.SoapDocumentServiceAttribute** class setting the parameter encoding and whether parameters are wrapped within a single element under the **Body** element within the XML portion of SOAP requests and responses. The parameter encoding style. Sets the **System.Web.Services.Protocols.SoapDocumentServiceAttribute.Use** property. Sets whether parameters are wrapped withn a single XML element under the **Body** element within the XML portion of SOAP requests and responses to Web Service methods within the Web Service. Sets the **System.Web.Services.Protocols.SoapDocumentServiceAttribute.ParameterStyle** property.

ParameterStyle

ToString

[C#] public SoapParameterStyle ParameterStyle {get; set;}

[C++] public: __property SoapParameterStyle get_ParameterStyle();public: __property void set_ParameterStyle(SoapParameterStyle);

[VB] Public Property ParameterStyle As SoapParameterStyle

[JScript] public function get ParameterStyle() : SoapParameterStyle;public function set ParameterStyle(SoapParameterStyle);

Description

Gets or sets the default for Web Service methods within the Web Service whether parameters are wrapped within a single element beneath the **Body** element in the XML portion of a SOAP message.

RoutingStyle

ToString

[C#] public SoapServiceRoutingStyle RoutingStyle {get; set;}

[C++] public: __property SoapServiceRoutingStyle get_RoutingStyle();public: __property void set_RoutingStyle(SoapServiceRoutingStyle);

[VB] Public Property RoutingStyle As SoapServiceRoutingStyle

[JScript] public function get RoutingStyle() : SoapServiceRoutingStyle;public function set RoutingStyle(SoapServiceRoutingStyle);

Description

TypeId

Use

ToString

Description

Gets or sets the default parameter encoding for a Web Service.

The Web Services Description Language (WSDL) defines two parameter encoding styles: **System.Web.Services.Description.SoapBindingUse.Encoded** and **System.Web.Services.Description.SoapBindingUse.Literal** .

SoapException class (System.Web.Services.Protocols)

ToString

Description

The exception that is thrown when a Web Service method is called over Simple Object Access Protocol (SOAP) and an exception occurs.

The **System.Web.Services.Protocols.SoapException** can either be thrown by the common language runtime or by a Web Service method. The common language runtime can throw a **System.Web.Services.Protocols.SoapException** if a response to a request is not formatted correctly. Web Service methods can generate a **System.Web.Services.Protocols.SoapException** by simply throwing an exception within the Web Service method. If the client accessed the method over SOAP, the exception is caught on the server and wrapped inside a new **System.Web.Services.Protocols.SoapException** . The SoapException thrown has the following property values: Property Value **System.Exception.Message** The **System.Exception.Message** property of the original exception.

ToString

[C#] public static readonly XmlQualifiedName ClientFaultCode;

[C++] public: static XmlQualifiedName* ClientFaultCode;

[VB] Public Shared ReadOnly ClientFaultCode As XmlQualifiedName

[JScript] public static var ClientFaultCode : XmlQualifiedName;

Description

Specifies a SOAP fault code representing a client call was not formatted correctly or did not contain the appropriate information.

An example of when a **System.Web.Services.Protocols.SoapException.ClientFaultCode** can be generated, is when a client call lacks proper authentication or payment information. It is generally an indication that the client call should not be resent without change.

ToString

[C#] public static readonly XmlQualifiedName DetailElementName;

[C++] public: static XmlQualifiedName* DetailElementName;

[VB] Public Shared ReadOnly DetailElementName As XmlQualifiedName

[JScript] public static var DetailElementName : XmlQualifiedName;

Description

Gets an **System.Xml.XmlQualifiedName** representing the **System.Web.Services.Protocols.SoapException.Detail** element of a SOAP Fault code.

In building an **System.Xml.XmlNode** for the **System.Web.Services.Protocols.SoapException.Detail** property, the **System.Xml.XmlQualifiedName.Name** and **System.Xml.XmlQualifiedName.Namespace** properties of **System.Web.Services.Protocols.SoapException.DetailElementName** can be used to ensure consistancy with the SOAP specification.

ToString

```
[C#] public static readonly XmlQualifiedName MustUnderstandFaultCode;
[C++] public: static XmlQualifiedName* MustUnderstandFaultCode;
[VB] Public Shared ReadOnly MustUnderstandFaultCode As XmlQualifiedName
[JScript] public static var MustUnderstandFaultCode : XmlQualifiedName;
```

Description

A SOAP Fault Code representing a SOAP element marked with the MustUnderstand attribute was not processed.

Not all SOAP elements require processing by the server. However, if a SOAP element is marked with the MustUnderstand attribute equal to 1, processing is required. Failure to process the element, generates a **System.Web.Services.Protocols.SoapException** with a **System.Web.Services.Protocols.SoapException.MustUnderstandFaultCode** .

ToString

```
[C#] public static readonly XmlQualifiedName ServerFaultCode;
[C++] public: static XmlQualifiedName* ServerFaultCode;
[VB] Public Shared ReadOnly ServerFaultCode As XmlQualifiedName
[JScript] public static var ServerFaultCode : XmlQualifiedName;
```

Description

Specifies a SOAP fault code representing an error occurred during the processing of a client call on the server, where the problem was not due to the message contents.

A **System.Web.Services.Protocols.SoapException.ServerFaultCode** might occur for example, if a server being called, couldn't respond to a request due to network problems. Typically, with this type of exception, the client call may succeed later.

ToString

```
[C#] public static readonly XmlQualifiedName VersionMismatchFaultCode;
[C++] public: static XmlQualifiedName* VersionMismatchFaultCode;
[VB] Public Shared ReadOnly VersionMismatchFaultCode As
XmlQualifiedName
[JScript] public static var VersionMismatchFaultCode : XmlQualifiedName;
```

Description

A SOAP fault code representing an invalid namespace for a SOAP Envelope was found during the processing of the SOAP message.

A SOAP Envelope is the top-level element of a XML document representing a SOAP message.

SoapException

Example Syntax:

ToString

[C#] public SoapException(string message, XmlQualifiedName code);

[C++] public: SoapException(String* message, XmlQualifiedName* code);

[VB] Public Sub New(ByVal message As String, ByVal code As XmlQualifiedName)

[JScript] public function SoapException(message : String, code : XmlQualifiedName);

Description

Initializes a new instance of the **System.Web.Services.Protocols.SoapException** class that sets the exception message and exception code. A message that identifies the reason the exception occurred. Sets the **System.Exception.Message** property. The type of error that occurred. Sets the **System.Web.Services.Protocols.SoapException.Code** property.

SoapException

Example Syntax:

ToString

[C#] public SoapException(string message, XmlQualifiedName code, Exception innerException);

[C++] public: SoapException(String* message, XmlQualifiedName* code, Exception* innerException);

[VB] Public Sub New(ByVal message As String, ByVal code As XmlQualifiedName, ByVal innerException As Exception)

[JScript] public function SoapException(message : String, code : XmlQualifiedName, innerException : Exception);

Description

Initializes a new instance of the **System.Web.Services.Protocols.SoapException** class that sets the exception message, exception code and a reference to the root cause of the exception. A message that identifies the reason the exception occurred. Sets the **System.Exception.Message** property. The type of error that occurred. Sets the **System.Web.Services.Protocols.SoapException.Code** property. A reference to the root cause of the exception. Sets the **System.Exception.InnerException** property.

SoapException

Example Syntax:

ToString

[C#] public SoapException(string message, XmlQualifiedName code, string actor);

[C++] public: SoapException(String* message, XmlQualifiedName* code, String* actor);

[VB] Public Sub New(ByVal message As String, ByVal code As XmlQualifiedName, ByVal actor As String)

[JScript] public function SoapException(message : String, code : XmlQualifiedName, actor : String); Initializes a new instance of the **System.Web.Services.Protocols.SoapException** class.

Description

Initializes a new instance of the **System.Web.Services.Protocols.SoapException** class that sets the exception message, exception code and the piece of code that caused the exception. A message that identifies the reason the exception occurred. Sets the **System.Exception.Message** property. The type of error that occurred. Sets the **System.Web.Services.Protocols.SoapException.Code** property. The piece of code that caused the exception. Typically, a URL to a Web Service method. Sets the **System.Web.Services.Protocols.SoapException.Actor** property.

SoapException

Example Syntax:

ToString

[C#] public SoapException(string message, XmlQualifiedName code, string actor, Exception innerException);

[C++] public: SoapException(String* message, XmlQualifiedName* code, String* actor, Exception* innerException);

[VB] Public Sub New(ByVal message As String, ByVal code As XmlQualifiedName, ByVal actor As String, ByVal innerException As Exception)

[JScript] public function SoapException(message : String, code : XmlQualifiedName, actor : String, innerException : Exception);

Description

Initializes a new instance of the **System.Web.Services.Protocols.SoapException** class that sets the exception message, exception code, the piece of code that casued the exception and a reference to the root cause of the exception. A message that identifies the reason the exception occurred. Sets the **System.Exception.Message** property. The type of error that occurred. Sets the **System.Web.Services.Protocols.SoapException.Code** property. The piece of code that caused the exception. Typically, a URL to a Web Service method. Sets the **System.Web.Services.Protocols.SoapException.Actor** property. A reference to the root cause of an exception. Sets the **System.Exception.InnerException** property.

SoapException

Example Syntax:

ToString

[C#] public SoapException(string message, XmlQualifiedName code, string actor, XmlNode detail);

[C++] public: SoapException(String* message, XmlQualifiedName* code, String* actor, XmlNode* detail);

[VB] Public Sub New(ByVal message As String, ByVal code As XmlQualifiedName, ByVal actor As String, ByVal detail As XmlNode)

[JScript] public function SoapException(message : String, code : XmlQualifiedName, actor : String, detail : XmlNode);

Description

Initializes a new instance of the **System.Web.Services.Protocols.SoapException** class that sets the exception message, exception code, piece of code that caused the exception and application specific exception information. A message that identifies the reason the exception occurred. Sets the **System.Exception.Message** property. The type of error that occurred. Sets the **System.Web.Services.Protocols.SoapException.Code** property. The piece of code that caused the exception. Typically, a URL to a Web Service method. Sets the **System.Web.Services.Protocols.SoapException.Actor** property. The application specific exception information. Sets the **System.Web.Services.Protocols.SoapException.Detail** property.

SoapException

Example Syntax:

ToString

[C#] public SoapException(string message, XmlQualifiedName code, string actor, XmlNode detail, Exception innerException);

[C++] public: SoapException(String* message, XmlQualifiedName* code, String* actor, XmlNode* detail, Exception* innerException);

[VB] Public Sub New(ByVal message As String, ByVal code As XmlQualifiedName, ByVal actor As String, ByVal detail As XmlNode, ByVal innerException As Exception)

[JScript] public function SoapException(message : String, code : XmlQualifiedName, actor : String, detail : XmlNode, innerException : Exception);

Description

Initializes a new instance of the **System.Web.Services.Protocols.SoapException** class that sets the exception message, exception code, piece of code that caused the exception, application specific exception information and a reference to the root cause of the exception. A message that identifies the reason the exception occurred. Sets the **System.Exception.Message** property. The type of error that occurred. Sets the **System.Web.Services.Protocols.SoapException.Code** property. The piece of code that caused the exception. Typically, a URL to a Web Service method. Sets the **System.Web.Services.Protocols.SoapException.Actor** property. The application specific exception information. Sets the **System.Web.Services.Protocols.SoapException.Detail** property. A reference to the root cause of the exception. Sets the **System.Exception.InnerException** property.

SoapException

Example Syntax:

ToString

[C#] public SoapException(string message, XmlQualifiedName code, string actor, XmlNode detail, XmlNode[] otherElements);

[C++] public: SoapException(String* message, XmlQualifiedName* code, String* actor, XmlNode* detail, XmlNode* otherElements[]);

[VB] Public Sub New(ByVal message As String, ByVal code As XmlQualifiedName, ByVal actor As String, ByVal detail As XmlNode, ByVal otherElements() As XmlNode)

[JScript] public function SoapException(message : String, code : XmlQualifiedName, actor : String, detail : XmlNode, otherElements : XmlNode[]);

Description

Initializes a new instance of the **System.Web.Services.Protocols.SoapException** class that sets the exception message, exception code, piece of code that caused the exception, application specific exception information and optional exception information. A message that identifies the reason the exception occurred. Sets the **System.Exception.Message** property. The type of error that occurred. Sets the **System.Web.Services.Protocols.SoapException.Code** property. The piece of code that caused the exception. Typically, a URL to a Web Service method. Sets the **System.Web.Services.Protocols.SoapException.Actor** property. The application specific exception information. Sets the **System.Web.Services.Protocols.SoapException.Detail** property. Optional exception information. Sets the **System.Web.Services.Protocols.SoapException.OtherElements** property.

SoapException

Example Syntax:

ToString

```
[C#] public SoapException(string message, XmlQualifiedName code, string actor,
XmlNode detail, XmlNode[] otherElements, Exception innerException);
[C++] public: SoapException(String* message, XmlQualifiedName* code,
String* actor, XmlNode* detail, XmlNode* otherElements[], Exception*
innerException);
[VB] Public Sub New(ByVal message As String, ByVal code As
XmlQualifiedName, ByVal actor As String, ByVal detail As XmlNode, ByVal
otherElements() As XmlNode, ByVal innerException As Exception)
[JScript] public function SoapException(message : String, code :
XmlQualifiedName, actor : String, detail : XmlNode, otherElements : XmlNode[],
innerException : Exception);
```

Description

Initializes a new instance of the **System.Web.Services.Protocols.SoapException** class that sets the exception message, exception code, piece of code that caused the exception, application specific exception information, optional exception information, and a reference to the root cause of the exception. A message that identifies the reason the exception occurred. Sets the **System.Exception.Message** property. The type of error that occurred. Sets the **System.Web.Services.Protocols.SoapException.Code** property. The piece of code that caused the exception. Typically, a URL to a Web Service method. Sets the **System.Web.Services.Protocols.SoapException.Actor** property. The application specific exception information. Sets the **System.Web.Services.Protocols.SoapException.Detail** property. Optional exception information. Sets the **System.Web.Services.Protocols.SoapException.OtherElements** property. A reference to the root cause of the exception. Sets the **System.Exception.InnerException** property.

Actor

ToString

[C#] public string Actor {get;}

[C++] public: __property String* get_Actor();

[VB] Public ReadOnly Property Actor As String

[JScript] public function get Actor() : String;

Description

Gets the piece of code that caused the exception.

System.Web.Services.Protocols.SoapException.Actor can only be set using one of the constructors that accept an **System.Web.Services.Protocols.SoapException.Actor** argument.

Code

ToString

[C#] public XmlQualifiedName Code {get;}

[C++] public: __property XmlQualifiedName* get_Code();

[VB] Public ReadOnly Property Code As XmlQualifiedName

[JScript] public function get Code() : XmlQualifiedName;

Description

Gets the type of SOAP fault code.

System.Web.Services.Protocols.SoapException.Code can only be set when creating a new instance of the **System.Web.Services.Protocols.SoapException** class.

Detail

ToString

[C#] public XmlNode Detail {get;}

[C++] public: __property XmlNode* get_Detail();

[VB] Public ReadOnly Property Detail As XmlNode

[JScript] public function get Detail() : XmlNode;

Description

Gets an **System.Xml.XmlNode** representing the application specific error information.

System.Web.Services.Protocols.SoapException.Detail can be set using one of the class constructors that accept a **System.Web.Services.Protocols.SoapException.Detail** value.

HelpLink

HResult

InnerException

Message

OtherElements

ToString

Description

Gets an array of **System.Xml.XmlNode** with the optional error information.

System.Web.Services.Protocols.SoapException.OtherElements can be set using one of the class constructors that accept an argument for **System.Web.Services.Protocols.SoapException.OtherElements** .

Source

StackTrace

TargetSite

SoapExtension class (System.Web.Services.Protocols)

ToString

Description

Represents the ase class for SOAP extensions in ASP.NET Web Services.

ASP.NET Web Services allows a SOAP-related infrastructure to be built by means of an extensibility mechanism. The ASP.NET SOAP extension architecture revolves around an extension that can inspect or modify a message at specific stages in message processing on either the client or the server.

SoapExtension

Example Syntax:

ToString

[C#] protected SoapExtension();

[C++] protected: SoapExtension();

[VB] Protected Sub New()

[JScript] protected function SoapExtension();

ChainStream

[C#] public virtual Stream ChainStream(Stream stream);

[C++] public: virtual Stream* ChainStream(Stream* stream);

[VB] Overridable Public Function ChainStream(ByVal stream As Stream) As Stream

[JScript] public function ChainStream(stream : Stream) : Stream;

Description

When overridden in a derived class, allows a SOAP extension access to the memory buffer containing the SOAP request or response.

Return Value: A **System.IO.Stream** representing a new memory buffer that this SOAP extension can modify.

System.Web.Services.Protocols.SoapExtension.ChainStream(System.IO.Stream) ensures that SOAP extensions with the highest priority can modify the actual data closest to the SOAP message sent or returned over the wire. For instance, you probably would not want a compression SOAP extension to compress the data prior to an encryption SOAP extension encrypted the data. Doing so might lead to an inefficiently compressed data packet sent over the wire. A memory buffer containing the SOAP request or response.

GetInitializer

```
[C#] public abstract object GetInitializer(Type serviceType);
[C++] public: virtual Object* GetInitializer(Type* serviceType) = 0;
[VB] MustOverride Public Function GetInitializer(ByVal serviceType As Type)
As Object
[JScript] public abstract function GetInitializer(serviceType : Type) : Object;
```

Description

When overridden in a derived class, allows a SOAP extension to initialize data specific to a class implementing a Web Service at a one-time performance cost.

Return Value: The **System.Object** that the SOAP extension initializes to be cached.

The overload of **System.Web.Services.Protocols.SoapExtension.GetIntializer** that gets called by the ASP.NET Web Services infrastructure depends on how the SOAP extension was specified. There are two methods for specifying a SOAP extension: apply a custom attribute, deriving from **System.Web.Services.Protocols.SoapExtensionAttribute** , to the individual Web Service method or add a reference in either the web.config or app.config configuration files. If you add a reference to one of the configuration files, the SOAP extension runs for all Web Services within the scope of that configuration file. The ASP.NET Web Services infrastructure invokes the **System.Web.Services.Protocols.GetInitializer** overload that passes in a

System.Type ; otherwise the ASP.NET Web Services infrastructure invokes the **System.Web.Services.Protocols.SoapExtension.GetInitializer(System.Web.Services.Protocols.LogicalMethodInfo,System.Web.Services.Protocols.SoapExtensionAttribute)** that passes in a **System.Web.Services.Protocols.LogicalMethodInfo** and a **System.Web.Services.Protocols.SoapExtensionAttribute** . The type of the class implementing the Web Service that a SOAP extension is applied to.

GetInitializer

[C#] public abstract object GetInitializer(LogicalMethodInfo methodInfo, SoapExtensionAttribute attribute);

[C++] public: virtual Object* GetInitializer(LogicalMethodInfo* methodInfo, SoapExtensionAttribute* attribute) = 0;

[VB] MustOverride Public Function GetInitializer(ByVal methodInfo As LogicalMethodInfo, ByVal attribute As SoapExtensionAttribute) As Object

[JScript] public abstract function GetInitializer(methodInfo : LogicalMethodInfo, attribute : SoapExtensionAttribute) : Object; When overridden in a derived class, allows a SOAP extension to initialize data specific to a Web Service method at a one-time performance cost.

Description

When overridden in a derived class, allows a SOAP extension to initialize data specific to a Web Service method using an attribute applied to the Web Service method at a one-time performance cost.

Return Value: The **System.Object** that the SOAP extension initializes to be cached.

If the SOAP extension is configured using a configuration file see the **System.Web.Services.Protocols.SoapExtension.GetInitialzier** overload that accepts a **System.Type** . A **System.Web.Services.Protocols.LogicalMethodInfo** object representing the specific function prototype for the Web Service method the SOAP extension is applied to. The instance of the **System.Web.Services.Protocols.SoapExtensionAttribute** applied to the Web Service method.

Initialize

```
[C#] public abstract void Initialize(object initializer);
[C++] public: virtual void Initialize(Object* initializer) = 0;
[VB] MustOverride Public Sub Initialize(ByVal initializer As Object)
[JScript] public abstract function Initialize(initializer : Object);
```

Description

When overridden in a derived class, allows a SOAP extension to initialize itself using the data cached in the **System.Web.Services.Protocols.SoapExtension.GetInitializer(System.Web.Services.Protocols.LogicalMethodInfo,System.Web.Services.Protocols.SoapExtensionAttribute)** method.

A SOAP extension has three opportunities to initialize data and they all have different purposes: Class constructor - The class constructor is called every time a SOAP extension is instantiated and is typically used to initialize member variables. The **System.Object** returned from **System.Web.Services.Protocols.SoapExtension.GetInitializer(System.Web.Services.Protocols.LogicalMethodInfo,System.Web.Services.Protocols.SoapExtensionAttribute)** cached by ASP.NET Web Services.

ProcessMessage

```
[C#] public abstract void ProcessMessage(SoapMessage message);
[C++] public: virtual void ProcessMessage(SoapMessage* message) = 0;
[VB] MustOverride Public Sub ProcessMessage(ByVal message As
SoapMessage)
[JScript] public abstract function ProcessMessage(message : SoapMessage);
```

Description

When overridden in a derived class, allows a SOAP extension to receive a **System.Web.Services.Protocols.SoapMessage** to process at each **System.Web.Services.Protocols.SoapMessageStage** .

System.Web.Services.Protocols.SoapExtension.ProcessMessage(System.Web.Services.Protocols.SoapMessage) is called at all **System.Web.Services.Protocols.SoapMessageStage** stages for SOAP extensions applied to both ASP.NET Web Service clients and ASP.NET Web Services. At each **System.Web.Services.Protocols.SoapMessageStage** , an instance of a class deriving from **System.Web.Services.Protocols.SoapMessage** is passed to **System.Web.Services.Protocols.SoapExtension.ProcessMessage(System.Web.Services.Protocols.SoapMessage)** . If the SOAP extension is running on the Web Service client, then a **System.Web.Services.Protocols.SoapClientMessage** object is passed into **System.Web.Services.Protocols.SoapExtension.ProcessMessage(System.Web.Services.Protocols.SoapMessage)** ; otherwise a **System.Web.Services.Protocols.SoapServerMessage** object is passed in. The **System.Web.Services.Protocols.SoapMessage** to process.

SoapExtensionAttribute class (System.Web.Services.Protocols)

ToString

Description

When overridden in a derived class, specifies the SOAP extension should be applied to a Web Service method.

ASP.NET Web Services enables applying SOAP extensions to a Web Service method by applying an attribute. When a custom extension attribute is added to a Web Service method or a proxy class client, ASP.NET Web Services invokes the associated extension at the appropriate time. An extension attribute is a custom attribute class deriving from **System.Web.Services.Protocols.SoapExtensionAttribute** . Derived attributes must override the **System.Web.Services.Protocols.SoapExtensionAttribute.ExtensionType** property to return the type of extension that is associated with the attribute.

SoapExtensionAttribute

Example Syntax:

ToString

[C#] protected SoapExtensionAttribute();

[C++] protected: SoapExtensionAttribute();

[VB] Protected Sub New()

[JScript] protected function SoapExtensionAttribute();

ExtensionType

ToString

[C#] public abstract Type ExtensionType {get;}

[C++] public: __property virtual Type* get_ExtensionType() = 0;

[VB] MustOverride Public ReadOnly Property ExtensionType As Type

[JScript] public abstract function get ExtensionType() : Type;

Description

When overridden in a derived class, gets the **System.Type** of the SOAP extension.

Derived classes must override the **System.Web.Services.Protocols.SoapExtensionAttribute.ExtensionType** property to return the **System.Type** of SOAP extension.

Priority

ToString

[C#] public abstract int Priority {get; set;}

[C++] public: __property virtual int get_Priority() = 0;public: __property virtual void set_Priority(int) = 0;

[VB] MustOverride Public Property Priority As Integer

[JScript] public abstract function get Priority() : int;public abstract function set Priority(int);

Description

When overridden in a derived class, gets or set the priority of the SOAP extension.

TypeId

SoapHeader class (System.Web.Services.Protocols)

ToString

Description

When overridden in a derived class, represents the content of a SOAP header.

SOAP headers offer a method for passing data to and from a Web Service method not directly related to a Web Service method's primary functionality. For instance, a Web Service may contain several Web Service methods that each require a custom authentication scheme. Instead of adding parameters to each Web Service method for the custom authentication scheme, a **System.Web.Services.Protocols.SoapHeaderAttribute** , referring to a class deriving from **System.Web.Services.Protocols.SoapHeader** , can be applied to each Web Service method. The implementation for the class deriving from **System.Web.Services.Protocols.SoapHeader** handles the custom authentication scheme. In this manner, the Web Service method implements only the functionality specific to it and adds additional functionality through the use of a SOAP header.

SoapHeader

Example Syntax:

ToString

[C#] protected SoapHeader();

[C++] protected: SoapHeader();

[VB] Protected Sub New()

[JScript] protected function SoapHeader();

Actor

ToString

[C#] public string Actor {get; set;}

[C++] public: __property String* get_Actor();public: __property void set_Actor(String*);

[VB] Public Property Actor As String

[JScript] public function get Actor() : String;public function set Actor(String);

Description

Gets or sets the recipient of the SOAP header.

According to the SOAP specification, the recipient (commonly called the SOAP actor attribute) does not have to be the same for the **Header** and **Body** elements of a SOAP message. For a Web Service method, the required **Body** element of a SOAP message represents the parameters and return values of the

Web Service method. If a **Header** element exists in the SOAP message, it represents additional data that can be sent to and from the Web Service method. The recipient of that data, known as the **Actor** , can be a different URI than the URI for the Web Service method.

DidUnderstand

ToString

[C#] public bool DidUnderstand {get; set;}

[C++] public: __property bool get_DidUnderstand();public: __property void set_DidUnderstand(bool);

[VB] Public Property DidUnderstand As Boolean

[JScript] public function get DidUnderstand() : Boolean;public function set DidUnderstand(Boolean);

Description

Gets or sets a value indicating whether a Web Service method properly processed a SOAP header.

For SOAP headers defined by a Web Service, ASP.NET Web Services assumes the Web Service method properly processed the SOAP header by setting the initial value of **System.Web.Services.Protocols.SoapHeader.DidUnderstand** to **true** . For SOAP headers not defined by the Web Service, the initial value is **false** . If ASP.NET Web Services detects SOAP headers passed to a Web Service method with **System.Web.Services.Protocols.SoapHeader.DidUnderstand** set to **false** after the method returns, a

System.Web.Services.Protocols.SoapHeaderException is thrown back to the Web Service client instead of the results from the Web Service method.

EncodedMustUnderstand

ToString

```
[C#] public string EncodedMustUnderstand {get; set;}
[C++] public: __property String* get_EncodedMustUnderstand();public: __property void set_EncodedMustUnderstand(String*);
[VB] Public Property EncodedMustUnderstand As String
[JScript] public function get EncodedMustUnderstand() : String;public function set EncodedMustUnderstand(String);
```

Description

Gets or sets the value of the **mustUnderstand** attribute for the SOAP header.

Valid values for the **System.Web.Services.Protocols.SoapHeader.EncodedMustUnderstand** property are 0 and 1, whereas setting the property to false or true equates to setting the property to 0 or 1, respectively.

MustUnderstand

ToString

```
[C#] public bool MustUnderstand {get; set;}
[C++] public: __property bool get_MustUnderstand();public: __property void set_MustUnderstand(bool);
```

[VB] Public Property MustUnderstand As Boolean

[JScript] public function get MustUnderstand() : Boolean;public function set MustUnderstand(Boolean);

Description

Gets or sets a value indicating whether the **System.Web.Services.Protocols.SoapHeader** must be understood.

When a Web Service client adds a SOAP header to a Web Service method call with the **System.Web.Services.Protocols.SoapHeader.MustUnderstand** property set to **true** , the Web Service method must set the **System.Web.Services.Protocols.SoapHeader.DidUnderstand** property to **true** ; otherwise, a **System.Web.Services.Protocols.SoapHeaderException** is thrown back to the Web Service client by ASP.NET Web Services.

SoapHeaderAttribute class (System.Web.Services.Protocols)

ToString

Description

This attribute is applied to a Web Service or a Web Service client to specify a SOAP Header the Web Service or Web Service client wants to process. This class cannot be inherited.

The basic steps to receiving and processing a SOAP header are: Create a class deriving from **System.Web.Services.Protocols.SoapHeader** representing the data passed in the SOAP header.

SoapHeaderAttribute

Example Syntax:

ToString

[C#] public SoapHeaderAttribute(string memberName);

[C++] public: SoapHeaderAttribute(String* memberName);

[VB] Public Sub New(ByVal memberName As String)

[JScript] public function SoapHeaderAttribute(memberName : String);

Description

Initializes a new instance of the **System.Web.Services.Protocols.SoapHeaderAttribute** class setting the member of the Web Service class representing the SOAP header contents.

A Web Service client or Web Service can specify the SOAP headers it wants to process for specific Web Service methods by applying a **System.Web.Services.Protocols.SoapHeaderAttribute** to the Web Service method in the Web Service class or the corresponding method in the proxy class. In order for the Web Service method to receive the contents of the SOAP header, a member is added to the Web Service class of a **System.Type** derived from **System.Web.Services.Protocols.SoapHeader** . Likewise, a Web Service client adds a member to the proxy class deriving from **System.Web.Services.Protocols.SoapHeader** . That **System.Type** deriving from **System.Web.Services.Protocols.SoapHeader** represents the contents of the SOAP header and is created by the developer of the Web Service or Web Service client that wants to receive the SOAP header. Once the class is created, a **System.Web.Services.Protocols.SoapHeaderAttribute** can be applied to the

Web Service method or corresponding method in the Web Service client proxy class specifing the member to receive the SOAP header contents with the *memberName* parameter to this constructor or the **System.Web.Services.Protocols.SoapHeaderAttribute.MemberName** property. Member of the Web Service class representing the SOAP header contents. Sets the **System.Web.Services.Protocols.SoapHeaderAttribute.MemberName** property.

Direction

ToString

[C#] public SoapHeaderDirection Direction {get; set;}

[C++] public: __property SoapHeaderDirection get_Direction();public: __property void set_Direction(SoapHeaderDirection);

[VB] Public Property Direction As SoapHeaderDirection

[JScript] public function get Direction() : SoapHeaderDirection;public function set Direction(SoapHeaderDirection);

Description

Gets or sets whether the SOAP header is intended for the Web Service or the Web Service client or both.

MemberName

ToString

[C#] public string MemberName {get; set;}

[C++] public: __property String* get_MemberName();public: __property void set_MemberName(String*);

[VB] Public Property MemberName As String

[JScript] public function get MemberName() : String;public function set MemberName(String);

Description

Gets or sets the member of the Web Service class representing the SOAP header contents.

A Web Service client or Web Service can specify the SOAP headers it wants to process for specific Web Service methods by applying a **System.Web.Services.Protocols.SoapHeaderAttribute** to the Web Service method in the Web Service class or the corresponding method in the proxy class. In order for the Web Service method to receive the contents of the SOAP header, a member is added to the Web Service class of a **System.Type** derived from **System.Web.Services.Protocols.SoapHeader** . Likewise, a Web Service client adds a member to the proxy class deriving from **System.Web.Services.Protocols.SoapHeader** . That **System.Type** deriving from **System.Web.Services.Protocols.SoapHeader** represents the contents of the SOAP header and is created by the developer of the Web Service or Web Service client that wants to receive the SOAP header. Once the class is created, a **System.Web.Services.Protocols.SoapHeaderAttribute** can be applied to the Web Service method or corresponding method in the Web Service client proxy class specifing the member to receive the SOAP header contents with the **System.Web.Services.Protocols.SoapHeaderAttribute.MemberName** property.

Required

ToString

[C#] public bool Required {get; set;}

[C++] public: __property bool get_Required();public: __property void set_Required(bool);

[VB] Public Property Required As Boolean

[JScript] public function get Required() : Boolean;public function set Required(Boolean);

Description

Gets or sets a value indicating whether the SOAP header must be understood and processed by the recipient Web Service or Web Service client.

When the **System.Type** of the member (represented by the **System.Web.Services.Protocols.SoapHeaderAttribute.MemberName** property) is either **System.Web.Services.Protocols.SoapHeader** or **System.Web.Services.Protocols.SoapUnknownHeader** , the **System.Web.Services.Protocols.SoapHeaderAttribute.Required** property must be **false** . For types that derive from **System.Web.Services.Protocols.SoapHeader** , it is fine for the **System.Web.Services.Protocols.SoapHeaderAttribute.Required** property to be **true** or **false** .

TypeId

SoapHeaderCollection class (System.Web.Services.Protocols)

ToString

Description

Contains a collection of **System.Web.Services.Protocols.SoapHeader** objects.

SoapHeaderCollection

Example Syntax:

ToString

[C#] public SoapHeaderCollection();

[C++] public: SoapHeaderCollection();

[VB] Public Sub New()

[JScript] public function SoapHeaderCollection();

Count

InnerList

Item

ToString

Description

Gets or sets the **System.Web.Services.Protocols.SoapHeader** at position *index* of the **System.Web.Services.Protocols.SoapHeaderCollection** .

This property provides the ability to access a specific element in the collection by using the following syntax: myCollection[index] . The zero-based index of the **System.Web.Services.Protocols.SoapHeader** to get or set.

List

Add

[C#] public int Add(SoapHeader header);

[C++] public: int Add(SoapHeader* header);

[VB] Public Function Add(ByVal header As SoapHeader) As Integer

[JScript] public function Add(header : SoapHeader) : int;

Description

Adds a **System.Web.Services.Protocols.SoapHeader** to the **System.Web.Services.Protocols.SoapHeaderCollection** .

Return Value: The position into which the **System.Web.Services.Protocols.SoapHeader** was inserted. The **System.Web.Services.Protocols.SoapHeader** to add to the **System.Web.Services.Protocols.SoapHeaderCollection** .

Contains

[C#] public bool Contains(SoapHeader header);

[C++] public: bool Contains(SoapHeader* header);

[VB] Public Function Contains(ByVal header As SoapHeader) As Boolean

[JScript] public function Contains(header : SoapHeader) : Boolean;

Description

Determines whether the **System.Web.Services.Protocols.SoapHeaderCollection** contains a specific

System.Web.Services.Protocols.SoapHeader .
Return Value: **true** if the **System.Web.Services.Protocols.SoapHeader** is found in the **System.Web.Services.Protocols.SoapHeaderCollection** ; otherwise, **false** . The **System.Web.Services.Protocols.SoapHeader** to locate in the **System.Web.Services.Protocols.SoapHeaderCollection**.

CopyTo

```
[C#] public void CopyTo(SoapHeader[] array, int index);
[C++] public: void CopyTo(SoapHeader* array[], int index);
[VB] Public Sub CopyTo(ByVal array() As SoapHeader, ByVal index As Integer)
[JScript] public function CopyTo(array : SoapHeader[], index : int);
```

Description

Copies the elements of the **System.Web.Services.Protocols.SoapHeaderCollection** to an **System.Array** , starting at a particular **System.Array** index. The one-dimensional **System.Array** that is the destination of the elements copied from **System.Web.Services.Protocols.SoapHeaderCollection**. The **System.Array** must have zero-based indexing. The zero-based index in *array* at which copying begins.

IndexOf

```
[C#] public int IndexOf(SoapHeader header);
[C++] public: int IndexOf(SoapHeader* header);
[VB] Public Function IndexOf(ByVal header As SoapHeader) As Integer
```

```
[JScript] public function IndexOf(header : SoapHeader) : int;
```

Description

Determines the index of the SoapHeader in the SoapHeaderCollection.

Return Value: The index of *header* if found in the **System.Web.Services.Protocols.SoapHeaderCollection** ; otherwise, -1. The **System.Web.Services.Protocols.SoapHeader**to locate in the **System.Web.Services.Protocols.SoapHeaderCollection**.

Insert

```
[C#] public void Insert(int index, SoapHeader header);
[C++] public: void Insert(int index, SoapHeader* header);
[VB] Public Sub Insert(ByVal index As Integer, ByVal header As SoapHeader)
[JScript] public function Insert(index : int, header : SoapHeader);
```

Description

Inserts a **System.Web.Services.Protocols.SoapHeader** into the **System.Web.Services.Protocols.SoapHeaderCollection** at the specified index.

If *index* equals the number of items in the collection, then the **System.Web.Services.Protocols.SoapHeader** is appended to the end. The zero-based index at which the **System.Web.Services.Protocols.SoapHeader** is inserted into the **System.Web.Services.Protocols.SoapHeaderCollection** . The **System.Web.Services.Protocols.SoapHeader** inserted into the **System.Web.Services.Protocols.SoapHeaderCollection** .

Remove

[C#] public void Remove(SoapHeader header);

[C++] public: void Remove(SoapHeader* header);

[VB] Public Sub Remove(ByVal header As SoapHeader)

[JScript] public function Remove(header : SoapHeader);

Description

Removes the first occurrence of a specific **System.Web.Services.Protocols.SoapHeader** from the **System.Web.Services.Protocols.SoapHeaderCollection** .

The **System.Web.Services.Protocols.SoapHeader** elements that follow the removed **System.Web.Services.Protocols.SoapHeader** move up to occupy the vacated spot. The **System.Web.Services.Protocols.SoapHeader** to remove from the **System.Web.Services.Protocols.SoapHeaderCollection**.

SoapHeaderDirection enumeration (System.Web.Services.Protocols)

ToString

Description

Specifies whether the recipient of the **System.Web.Services.Protocols.SoapHeader** is the Web Service, the Web Service client or both.

A **System.Web.Services.Protocols.SoapHeaderAttribute** can be applied to either a Web Service method or a method on a proxy class to a Web Service. In either case, the recipient is specified by the

System.Web.Services.Protocols.SoapHeaderAttribute.Direction property of **System.Web.Services.Protocols.SoapHeaderAttribute** .

ToString

[C#] public const SoapHeaderDirection In;

[C++] public: const SoapHeaderDirection In;

[VB] Public Const In As SoapHeaderDirection

[JScript] public var In : SoapHeaderDirection;

Description

Specifies the **System.Web.Services.Protocols.SoapHeader** is sent to the Web Service.

ToString

[C#] public const SoapHeaderDirection InOut;

[C++] public: const SoapHeaderDirection InOut;

[VB] Public Const InOut As SoapHeaderDirection

[JScript] public var InOut : SoapHeaderDirection;

Description

Specifies the **System.Web.Services.Protocols.SoapHeader** is sent to both the Web Service and the Web Service client.

ToString

[C#] public const SoapHeaderDirection Out;

[C++] public: const SoapHeaderDirection Out;

[VB] Public Const Out As SoapHeaderDirection

[JScript] public var Out : SoapHeaderDirection;

Description

Specifies the **System.Web.Services.Protocols.SoapHeader** is sent to the Web Service client.

SoapHeaderException class (System.Web.Services.Protocols)

ToString

Description

The exception that is thrown when a Web Service method is called over Simple Object Access Protocol (SOAP) and an exception occurs processing the SOAP header.

When a Web Service client adds a SOAP header to a Web Service method call with the **System.Web.Services.Protocols.SoapHeader.MustUnderstand** property set to **true** , the Web Service method must set the **System.Web.Services.Protocols.SoapHeader.DidUnderstand** property to true;otherwise a **System.Web.Services.Protocols.SoapHeaderException** is thrown.

SoapHeaderException

Example Syntax:

ToString

[C#] public SoapHeaderException(string message, XmlQualifiedName code);

[C++] public: SoapHeaderException(String* message, XmlQualifiedName* code);

[VB] Public Sub New(ByVal message As String, ByVal code As XmlQualifiedName)

[JScript] public function SoapHeaderException(message : String, code : XmlQualifiedName);

Description

Initializes a new instance of the **System.Web.Services.Protocols.SoapHeaderException** class. A message that identifies the reason the exception occurred. Sets the **System.Exception.Message** property. The type of error that occurred. Sets the **System.Web.Services.Protocols.SoapException.Code** property.

SoapHeaderException

Example Syntax:

ToString

[C#] public SoapHeaderException(string message, XmlQualifiedName code, Exception innerException);

[C++] public: SoapHeaderException(String* message, XmlQualifiedName* code, Exception* innerException);

[VB] Public Sub New(ByVal message As String, ByVal code As XmlQualifiedName, ByVal innerException As Exception)

[JScript] public function SoapHeaderException(message : String, code : XmlQualifiedName, innerException : Exception);

Description

Initializes a new instance of the **System.Web.Services.Protocols.SoapHeaderException** class. A message that identifies the reason the exception occurred. Sets the **System.Exception.Message** property. The type of error that occurred. Sets the **System.Web.Services.Protocols.SoapException.Code** property. A reference to the root cause of an exception. Sets the **System.Exception.InnerException** property.

SoapHeaderException

Example Syntax:

ToString

[C#] public SoapHeaderException(string message, XmlQualifiedName code, string actor);

[C++] public: SoapHeaderException(String* message, XmlQualifiedName* code, String* actor);

[VB] Public Sub New(ByVal message As String, ByVal code As XmlQualifiedName, ByVal actor As String)

[JScript] public function SoapHeaderException(message : String, code : XmlQualifiedName, actor : String);

Description

Initializes a new instance of the **System.Web.Services.Protocols.SoapHeaderException** class. A message that identifies the reason the exception occurred. Sets the **System.Exception.Message** property. The type of error that occurred. Sets the **System.Web.Services.Protocols.SoapException.Code** property. The piece of code that caused the exception. Typically, a URL to a Web Service method. Sets the **System.Web.Services.Protocols.SoapException.Actor** property.

SoapHeaderException

Example Syntax:

ToString

```
[C#] public SoapHeaderException(string message, XmlQualifiedName code,
string actor, Exception innerException);
[C++] public: SoapHeaderException(String* message, XmlQualifiedName* code,
String* actor, Exception* innerException);
[VB] Public Sub New(ByVal message As String, ByVal code As
XmlQualifiedName, ByVal actor As String, ByVal innerException As Exception)
[JScript] public function SoapHeaderException(message : String, code :
XmlQualifiedName, actor : String, innerException : Exception);
```

Description

Initializes a new instance of the **System.Web.Services.Protocols.SoapHeaderException** class. A message that identifies the reason the exception occurred. Sets the **System.Exception.Message** property. The type of error that occurred. Sets the

System.Web.Services.Protocols.SoapException.Code property. The piece of code that caused the exception. Typically, a URL to a Web Service method. Sets the **System.Web.Services.Protocols.SoapException.Actor** property. A reference to the root cause of an exception. Sets the **System.Exception.InnerException** property.

SoapHeaderException

Example Syntax:

ToString

[C#] public SoapHeaderException(string message, XmlQualifiedName code, string actor, XmlNode[] otherElements);

[C++] public: SoapHeaderException(String* message, XmlQualifiedName* code, String* actor, XmlNode* otherElements[]);

[VB] Public Sub New(ByVal message As String, ByVal code As XmlQualifiedName, ByVal actor As String, ByVal otherElements() As XmlNode)

[JScript] public function SoapHeaderException(message : String, code : XmlQualifiedName, actor : String, otherElements : XmlNode[]);

Description

Initializes a new instance of the **System.Web.Services.Protocols.SoapHeaderException** class. A message that identifies the reason the exception occurred. Sets the **System.Exception.Message** property. The type of error that occurred. Sets the **System.Web.Services.Protocols.SoapException.Code** property. The piece of code that caused the exception. Typically, a URL to a Web Service method. Sets the **System.Web.Services.Protocols.SoapException.Actor** property. Optional exception information. Sets the **System.Web.Services.Protocols.SoapException.OtherElements** property.

SoapHeaderException

Example Syntax:

ToString

```
[C#] public SoapHeaderException(string message, XmlQualifiedName code,
string actor, XmlNode[] otherElements, Exception innerException);
[C++] public: SoapHeaderException(String* message, XmlQualifiedName* code,
String* actor, XmlNode* otherElements[], Exception* innerException);
[VB] Public Sub New(ByVal message As String, ByVal code As
XmlQualifiedName, ByVal actor As String, ByVal otherElements() As XmlNode,
ByVal innerException As Exception)
[JScript] public function SoapHeaderException(message : String, code :
XmlQualifiedName, actor : String, otherElements : XmlNode[], innerException :
Exception);
```

Description

Initializes a new instance of the **System.Web.Services.Protocols.SoapHeaderException** class. A message that identifies the reason the exception occurred. Sets the **System.Exception.Message** property. The type of error that occurred. Sets the **System.Web.Services.Protocols.SoapException.Code** property. The piece of code that caused the exception. Typically, a URL to a Web Service method. Sets the **System.Web.Services.Protocols.SoapException.Actor** property. Optional exception information. Sets the **System.Web.Services.Protocols.SoapException.OtherElements** property. A reference to the root cause of an exception. Sets the **System.Exception.InnerException** property.

Actor

Code

Detail

HelpLink

HResult

InnerException

Message

OtherElements

Source

StackTrace

TargetSite

SoapHttpClientProtocol class (System.Web.Services.Protocols)

ToString

Description

Specifies the class ASP.NET Web Service client proxies derive from when using Simple Object Access Protocol (SOAP).

ASP.NET incorporates two distinct Web Services functionalities: Building ASP.NET Web Services and Building Web Services clients. If you are building a

Web Service client using ASP.NET, then a proxy class deriving indirectly or directly from **System.Web.Services.Protocols.WebClientProtocol** needs to be created for the Web Service you want to call. When the Web Service client is calling via SOAP, the proxy class should derive from **System.Web.Services.Protocols.SoapHttpClientProtocol** , which derives from **System.Web.Services.Protocols.HttpWebClientProtocol** .

SoapHttpClientProtocol

Example Syntax:

ToString

```
[C#] public SoapHttpClientProtocol();
[C++] public: SoapHttpClientProtocol();
[VB] Public Sub New()
[JScript] public function SoapHttpClientProtocol();
```

Description

Initializes a new instance of the **System.Web.Services.Protocols.SoapHttpClientProtocol** class.

AllowAutoRedirect

ClientCertificates

ConnectionGroupName

Container

CookieContainer

Credentials

DesignMode

Events

PreAuthenticate

Proxy

RequestEncoding

Site

Timeout

Url

UserAgent

BeginInvoke

[C#] protected IAsyncResult BeginInvoke(string methodName, object[] parameters, AsyncCallback callback, object asyncState);

[C++] protected: IAsyncResult* BeginInvoke(String* methodName, Object* parameters __gc[], AsyncCallback* callback, Object* asyncState);

[VB] Protected Function BeginInvoke(ByVal methodName As String, ByVal parameters() As Object, ByVal callback As AsyncCallback, ByVal asyncState As Object) As IAsyncResult

[JScript] protected function BeginInvoke(methodName : String, parameters : Object[], callback : AsyncCallback, asyncState : Object) : IAsyncResult;

Description

Starts an asynchronous invocation of a Web Service method using Simple Object Access Protocol(SOAP).

Return Value: An **System.IAsyncResult** which is passed to

System.Web.Services.Protocols.SoapHttpClientProtocol.EndInvoke(System.IAsyncResult) to obtain the return values from the remote method call.

Typically, you would not call the **System.Web.Services.Protocols.SoapHttpClientProtocol.BeginInvoke(System.String,System.Object[],System.AsyncCallback,System.Object)** method directly, unless you were building your own proxy class for a Web Service. The name of the Web Service method in the derived class that is invoking **System.Web.Services.Protocols.SoapHttpClientProtocol.BeginInvoke(System.String,System.Object[],System.AsyncCallback,System.Object)**. An array of objects containing the parameters to pass to the remote web service. The order of the values in the array correspond to the order of the parameters in the calling method of the derived class. The delegate to call when the asynchronous invoke is complete. If *callback* is **null**, the delegate is not called. Extra information supplied by the caller.

Discover

[C#] public void Discover();
[C++] public: void Discover();
[VB] Public Sub Discover()
[JScript] public function Discover();

Description

Dynamically binds to a Web Service described in the discovery document at **System.Web.Services.Protocols.WebClientProtocol.Url** .

A Web Service client can dynamically bind to a Web Service other than the one referenced in the proxy class using the **System.Web.Services.Protocols.SoapHttpClientProtocol.Discover** method. Typically, the **System.Web.Services.Protocols.WebClientProtocol.Url** property refers to the base address of the Web Service, however prior to invoking the **System.Web.Services.Protocols.SoapHttpClientProtocol.Discover** method, set the **System.Web.Services.Protocols.WebClientProtocol.Url** property to a URL of a discovery document. Invoking the **System.Web.Services.Protocols.SoapHttpClientProtocol.Discover** method attempts to find a match in the discovery document to the binding defined in the proxy class and then dynamically bind to it. If successful, future method invocations are directed to the Web Service described in the discovery document.

EndInvoke

```
[C#] protected object[] EndInvoke(IAsyncResult asyncResult);
[C++] protected: Object* EndInvoke(IAsyncResult* asyncResult) __gc[];
[VB] Protected Function EndInvoke(ByVal asyncResult As IAsyncResult) As
Object()
[JScript] protected function EndInvoke(asyncResult : IAsyncResult) : Object[];
```

Description

Ends an asynchronous invocation of a Web Service method using Simple Object Access Protocol(SOAP).

Return Value: An array of objects containing the return value and any by-reference or out parameters of the derived class method.

Typically, you would not call the **System.Web.Services.Protocols.SoapHttpClientProtocol.EndInvoke(System.IAsyncResult)** method directly, unless you were building your own proxy class for a Web Service. The **System.IAsyncResult** returned from **System.Web.Services.Protocols.SoapHttpClientProtocol.BeginInvoke(System.String,System.Object[],System.AsyncCallback,System.Object)**.

GetWebRequest

[C#] protected override WebRequest GetWebRequest(Uri uri);

[C++] protected: WebRequest* GetWebRequest(Uri* uri);

[VB] Overrides Protected Function GetWebRequest(ByVal uri As Uri) As WebRequest

[JScript] protected override function GetWebRequest(uri : Uri) : WebRequest;

Description

Creates a **System.Net.WebRequest** instance for the specified *url* .

Return Value: The **System.Net.WebRequest** instance.

This method can be overridden to customize the **System.Net.WebRequest** object before the Web Service request is made. For example you could add a custom header to the request. The **System.Uri** to use when creating the **System.Net.WebRequest**.

Invoke

[C#] protected object[] Invoke(string methodName, object[] parameters);

[C++] protected: Object* Invoke(String* methodName, Object* parameters __gc[]) __gc[];

[VB] Protected Function Invoke(ByVal methodName As String, ByVal parameters() As Object) As Object()

[JScript] protected function Invoke(methodName : String, parameters : Object[]) : Object[];

Description

Invokes a Web Service method synchronously using SOAP.

Return Value: An array of objects containing the return value and any by reference or out parameters of the derived class method.

Typically, you would not call the **System.Web.Services.Protocols.SoapHttpClientProtocol.Invoke(System.String,System.Object[])** method directly, unless you were building your own proxy class for a Web Service. The name of the Web Service method. An array of objects containing the parameters to pass to the remote web service. The order of the values in the array correspond to the order of the parameters in the calling method of the derived class.

SoapMessage class (System.Web.Services.Protocols)

ToString

Description

Represents the data in a SOAP request or SOAP response at a specific **System.Web.Services.Protocols.SoapMessageStage** .

The **System.Web.Services.Protocols.SoapMessage** class is primary used for SOAP extensions to represent the data in a SOAP request or SOAP response at the **System.Web.Services.Protocols.SoapMessageStage** in the **System.Web.Services.Protocols.SoapMessage.Stage** property. A SOAP extension, which is a class deriving from **System.Web.Services.Protocols.SoapExtension** , receives a **System.Web.Services.Protocols.SoapMessage** at each **System.Web.Services.Protocols.SoapMessageStage** when the **System.Web.Services.Protocols.SoapExtension.ProcessMessage(System.Web.Services.Protocols.SoapMessage)** method is called. It is up to the particular SOAP extension to decide how to process the **System.Web.Services.Protocols.SoapMessage** , but a couple of common SOAP extensions might include encryption and compression.

Action

ToString

[C#] public abstract string Action {get;}

[C++] public: __property virtual String* get_Action() = 0;

[VB] MustOverride Public ReadOnly Property Action As String

[JScript] public abstract function get Action() : String;

Description

When overridden in a derived class, gets the SOAPAction HTTP request header field for the SOAP request or SOAP response.

The **System.Web.Services.Protocols.SoapMessage.Action** property can be accessed during any **System.Web.Services.Protocols.SoapMessageStage** .

ContentType

ToString

[C#] public string ContentType {get; set;}

[C++] public: __property String* get_ContentType();public: __property void set_ContentType(String*);

[VB] Public Property ContentType As String

[JScript] public function get ContentType() : String;public function set ContentType(String);

Description

Gets or sets the HTTP Content-Type of the SOAP request or SOAP response.

The **System.Web.Services.Protocols.SoapMessage.ContentType** property can only be accessed in the **System.Web.Services.Protocols.SoapMessageStage.BeforeSerialize** and **System.Web.Services.Protocols.SoapMessageStage.BeforeDeserialize** stages; otherwise an **System.InvalidOperationException** is thrown.

Exception

ToString

[C#] public SoapException Exception {get;}

[C++] public: __property SoapException* get_Exception();

[VB] Public ReadOnly Property Exception As SoapException

[JScript] public function get Exception() : SoapException;

Description

Gets the **System.Web.Services.Protocols.SoapException** from the call to the Web Service method.

The **System.Web.Services.Protocols.SoapMessage.Exception** property can be accessed during any **System.Web.Services.Protocols.SoapMessageStage** .

Headers

ToString

[C#] public SoapHeaderCollection Headers {get;}

[C++] public: __property SoapHeaderCollection* get_Headers();

[VB] Public ReadOnly Property Headers As SoapHeaderCollection

[JScript] public function get Headers() : SoapHeaderCollection;

Description

A collection of the SOAP headers applied to the current SOAP request or SOAP response.

SOAP headers are an optional portion of a SOAP request or SOAP response. For more details on using SOAP headers in ASP.NET Web Services and ASP.NET clients, see the **System.Web.Services.Protocols.SoapHeader** class.

MethodInfo

ToString

[C#] public abstract LogicalMethodInfo MethodInfo {get;}

[C++] public: __property virtual LogicalMethodInfo* get_MethodInfo() = 0;

[VB] MustOverride Public ReadOnly Property MethodInfo As LogicalMethodInfo

[JScript] public abstract function get MethodInfo() : LogicalMethodInfo;

Description

When overridden in a derived class, gets a representation of the method prototype for the Web Service method for which the SOAP request is intended.

Although the **System.Web.Services.Protocols.SoapMessage.MethodInfo** can be accessed during any **System.Web.Services.Protocols.SoapMessageStage** , it only has data during **System.Web.Services.Protocols.SoapMessageStage.AfterDeserialize** and **System.Web.Services.Protocols.SoapMessageStage.BeforeSerialize** .

OneWay

ToString

[C#] public abstract bool OneWay {get;}

[C++] public: __property virtual bool get_OneWay() = 0;

[VB] MustOverride Public ReadOnly Property OneWay As Boolean

[JScript] public abstract function get OneWay() : Boolean;

Description

Gets a value indicating the **System.Web.Services.Protocols.SoapDocumentMethodAttribute.OneWay** property of either the **System.Web.Services.Protocols.SoapDocumentMethodAttribute** or **System.Web.Services.Protocols.SoapRpcMethodAttribute** applied to the Web Service method.

See the **System.Web.Services.Protocols.SoapDocumentMethodAttribute.OneWay** property of **System.Web.Services.Protocols.SoapDocumentMethodAttribute** or **System.Web.Services.Protocols.SoapRpcMethodAttribute** for details about one-way Web Service methods.

Stage

ToString

```
[C#] public SoapMessageStage Stage {get;}
[C++] public: __property SoapMessageStage get_Stage();
[VB] Public ReadOnly Property Stage As SoapMessageStage
[JScript] public function get Stage() : SoapMessageStage;
```

Description

Gets the **System.Web.Services.Protocols.SoapMessageStage** of the **System.Web.Services.Protocols.SoapMessage** .

The **System.Web.Services.Protocols.SoapMessage.Stage** property can be accessed at any **System.Web.Services.Protocols.SoapMessageStage** .

Stream

ToString

[C#] public Stream Stream {get;}

[C++] public: __property Stream* get_Stream();

[VB] Public ReadOnly Property Stream As Stream

[JScript] public function get Stream() : Stream;

Description

Gets the data representing the SOAP request or SOAP response in the form of a **System.IO.Stream** object.

SOAP extensions that inspect the data representing a SOAP request or SOAP response, such as a logging SOAP extension, can use the **System.IO.Stream** property to view the data at each **System.Web.Services.Protocols.SoapMessageStage** .

Url

ToString

[C#] public abstract string Url {get;}

[C++] public: __property virtual String* get_Url() = 0;

[VB] MustOverride Public ReadOnly Property Url As String

[JScript] public abstract function get Url() : String;

Description

When overridden in a derived class, gets the base URL of the Web Service.

The **System.Web.Services.Protocols.SoapMessage.Url** property can be accessed during any **System.Web.Services.Protocols.SoapMessageStage** .

EnsureInStage

[C#] protected abstract void EnsureInStage();

[C++] protected: virtual void EnsureInStage() = 0;

[VB] MustOverride Protected Sub EnsureInStage()

[JScript] protected abstract function EnsureInStage();

Description

When overridden in a derived class, asserts that the current **System.Web.Services.Protocols.SoapMessageStage** stage is a stage where in parameters are available.

The asserted stage is different for Web Service clients and Web Service methods. A Web Service method's in parameters are available after the SOAP request is deserialized in the **System.Web.Services.Protocols.SoapMessageStage.AfterDeserialize** stage. For a Web Service client, the in parameters are available prior to the SOAP request serialization process in the **System.Web.Services.Protocols.SoapMessageStage.BeforeSerialize** stage.

EnsureOutStage

[C#] protected abstract void EnsureOutStage();

[C++] protected: virtual void EnsureOutStage() = 0;

[VB] MustOverride Protected Sub EnsureOutStage()

[JScript] protected abstract function EnsureOutStage();

Description

When overridden in a derived class, asserts that the current **System.Web.Services.Protocols.SoapMessageStage** stage is a stage where out parameters are available.

The asserted stage is different for Web Service clients and Web Service methods. A Web Service method's out parameters are available prior to the SOAP response serialization process in the **System.Web.Services.Protocols.SoapMessageStage.BeforeSerialize** stage. For a Web Service client, the out parameters are available after the SOAP response deserialization process in the **System.Web.Services.Protocols.SoapMessageStage.AfterDeserialize** stage.

EnsureStage

[C#] protected void EnsureStage(SoapMessageStage stage);
[C++] protected: void EnsureStage(SoapMessageStage stage);
[VB] Protected Sub EnsureStage(ByVal stage As SoapMessageStage)
[JScript] protected function EnsureStage(stage : SoapMessageStage);

Description

Ensures that the **System.Web.Services.Protocols.SoapMessageStage** of the call to the Web Service method is the stage or stages passed in. If the current processing stage is not one of the stages passed in, an exception is thrown.

Multiple stages can be asserted by performing a bitwise OR operation on multiple **System.Web.Services.Protocols.SoapMessageStage** stages. The **System.Web.Services.Protocols.SoapMessageStage** asserted.

GetInParameterValue

```
[C#] public object GetInParameterValue(int index);
[C++] public: Object* GetInParameterValue(int index);
[VB] Public Function GetInParameterValue(ByVal index As Integer) As Object
[JScript] public function GetInParameterValue(index : int) : Object;
```

Description

Gets the parameter passed into the Web Service method at the specified index.

Return Value: An **System.Object** representing the parameter at index in the array of parameters.

The **System.Web.Services.Protocols.SoapMessage.GetInParameterValue(System.Int32)** property is only accessible when in parameters are available. ASP.NET Web Services throws **System.InvalidOperationException** when accessing the **System.Web.Services.Protocols.SoapMessage.GetInParameterValue(System.Int32)** property if in parameters are not available. The zero-based index of the parameter in the array of parameters .

GetOutParameterValue

```
[C#] public object GetOutParameterValue(int index);
```

[C++] public: Object* GetOutParameterValue(int index);

[VB] Public Function GetOutParameterValue(ByVal index As Integer) As Object

[JScript] public function GetOutParameterValue(index : int) : Object;

Description

Gets the out parameter passed into the Web Service method at the specified index.

Return Value: An **System.Object** representing the parameter at index in the array of parameters.

The **System.Web.Services.Protocols.SoapMessage.GetInParameterValue(System.Int32)** property is only accessible when out parameters are available. ASP.NET Web Services throws **System.InvalidOperationException** when accessing the **System.Web.Services.Protocols.SoapMessage.GetOutParameterValue(System.Int32)** property if out parameters are not available. The zero-based index of the parameter in the array of parameters.

GetReturnValue

[C#] public object GetReturnValue();

[C++] public: Object* GetReturnValue();

[VB] Public Function GetReturnValue() As Object

[JScript] public function GetReturnValue() : Object;

Description

Gets the return value of a Web Service method.

Return Value: An **System.Object** representing the return value of the Web Service method.

The **System.Web.Services.Protocols.SoapMessage.GetReturnValue** property is only accessible when a return value is available. ASP.NET Web Services throws **System.InvalidOperationException** when accessing the **System.Web.Services.Protocols.SoapMessage.GetReturnValue** property and the return value is not available.

SoapMessageStage enumeration (System.Web.Services.Protocols)

ToString

Description

Specifies the processing stage of a SOAP message.

ASP.NET Web Services provides an extensibility mechanism for calling Web Services using SOAP. The extensibility mechanism revolves around a **System.Web.Services.Protocols.SoapExtension** that is allowed to inspect or modify a message at specific stages in message processing on either the client or the server. This enum specifies the processing stage of a **System.Web.Services.Protocols.SoapMessage** .

ToString

[C#] public const SoapMessageStage AfterDeserialize;

[C++] public: const SoapMessageStage AfterDeserialize;

[VB] Public Const AfterDeserialize As SoapMessageStage

[JScript] public var AfterDeserialize : SoapMessageStage;

Description

The stage just after a **System.Web.Services.Protocols.SoapMessage** is deserialized from a SOAP message into a object.

ToString

[C#] public const SoapMessageStage AfterSerialize;

[C++] public: const SoapMessageStage AfterSerialize;

[VB] Public Const AfterSerialize As SoapMessageStage

[JScript] public var AfterSerialize : SoapMessageStage;

Description

The stage just after a **System.Web.Services.Protocols.SoapMessage** is serialized, but before the SOAP message is sent over the wire.

ToString

[C#] public const SoapMessageStage BeforeDeserialize;

[C++] public: const SoapMessageStage BeforeDeserialize;

[VB] Public Const BeforeDeserialize As SoapMessageStage

[JScript] public var BeforeDeserialize : SoapMessageStage;

Description

The stage just before a **System.Web.Services.Protocols.SoapMessage** is deserialized from the SOAP message sent across the network into a object.

ToString

[C#] public const SoapMessageStage BeforeSerialize;

[C++] public: const SoapMessageStage BeforeSerialize;

[VB] Public Const BeforeSerialize As SoapMessageStage

[JScript] public var BeforeSerialize : SoapMessageStage;

Description

The stage just prior to a **System.Web.Services.Protocols.SoapMessage** being serialized.

SoapParameterStyle enumeration (System.Web.Services.Protocols)

ToString

Description

Specifies how parameters are encoded in the XML portion of a SOAP message.

System.Web.Services.Protocols.SoapParameterStyle can be set when applying a **System.Web.Services.Protocols.SoapDocumentMethodAttribute** or **System.Web.Services.Protocols.SoapDocumentServiceAttribute** attribute to a Web Service method or a method of a client proxy class and the class implementing a Web Service respectively.

ToString

[C#] public const SoapParameterStyle Bare;

[C++] public: const SoapParameterStyle Bare;

[VB] Public Const Bare As SoapParameterStyle

[JScript] public var Bare : SoapParameterStyle;

Description

Specifies the Web Service method parameters are elements directly beneath the **Body** element of the XML portion of a SOAP request or SOAP response.

ToString

[C#] public const SoapParameterStyle Default;

[C++] public: const SoapParameterStyle Default;

[VB] Public Const Default As SoapParameterStyle

[JScript] public var Default : SoapParameterStyle;

Description

Specifies using the default SoapParameterStyle for the Web Service. The default can for a Web Service by applying a SoapDocumentServiceAttribute to the class implementing the Web Service. If a **System.Web.Services.Protocols.SoapDocumentServiceAttribute** is not applied to the class implementing the Web Service the default is **System.Web.Services.Protocols.SoapParameterStyle.Wrapped** .

ToString

[C#] public const SoapParameterStyle Wrapped;

[C++] public: const SoapParameterStyle Wrapped;

[VB] Public Const Wrapped As SoapParameterStyle

[JScript] public var Wrapped : SoapParameterStyle;

Description

Specifies the Web Service method parameters are wrapped within a single element beneath the **Body** element of the XML portion of a SOAP request or SOAP response.

SoapRpcMethodAttribute class (System.Web.Services.Protocols)

ToString

Description

Applying the optional **System.Web.Services.Protocols.SoapRpcMethodAttribute** to a Web Service method alters the format of the SOAP request or response sent to and from a Web Service method.

Web Services Description Language (WSDL) defines two styles for how a Web Service method, which it calls an operation, can be encoded in a SOAP request or a SOAP response: RPC and Document. The RPC style refers to encoding the Web Service method according to the SOAP specification for using SOAP for RPC; otherwise known as Section 7 of the SOAP specification. This style states that all parameters are wrapped within a single element named after the Web Service method and that each element within that element represent a parameter named after their respective parameter name.

SoapRpcMethodAttribute

Example Syntax:

ToString

[C#] public SoapRpcMethodAttribute();

[C++] public: SoapRpcMethodAttribute();

[VB] Public Sub New()

[JScript] public function SoapRpcMethodAttribute(); Initializes a new instance of the **System.Web.Services.Protocols.SoapRpcMethodAttribute** class.

Description

Initializes a new instance of the **System.Web.Services.Protocols.SoapRpcMethodAttribute** class setting all properties to their defaults.

SoapRpcMethodAttribute

Example Syntax:

ToString

[C#] public SoapRpcMethodAttribute(string action);

[C++] public: SoapRpcMethodAttribute(String* action);

[VB] Public Sub New(ByVal action As String)

[JScript] public function SoapRpcMethodAttribute(action : String);

Description

Initializes a new instance of the **System.Web.Services.Protocols.SoapRpcMethodAttribute** class setting the

System.Web.Services.Protocols.SoapRpcMethodAttribute.Action property to *action* . The intent of the SOAP request. Sets the **System.Web.Services.Protocols.SoapRpcMethodAttribute.Action** property.

Action

ToString

[C#] public string Action {get; set;}

[C++] public: __property String* get_Action();public: __property void set_Action(String*);

[VB] Public Property Action As String

[JScript] public function get Action() : String;public function set Action(String);

Description

Gets or sets the intent of the SOAP request.

The **System.Web.Services.Protocols.SoapRpcMethodAttribute.Action** property forms the SOAPAction HTTP Header Field for the HTTP Request.

Binding

ToString

[C#] public string Binding {get; set;}

[C++] public: __property String* get_Binding();public: __property void set_Binding(String*);

[VB] Public Property Binding As String

[JScript] public function get Binding() : String;public function set Binding(String);

Description

Gets or sets the binding a Web Service method is implementing a operation for.

A binding, as defined by Web Services Description Language(WSDL), is similar to an interface, in that it defines a concrete set of operations. With respect to ASP.NET Web Services, each Web Service method is an operation within a binding. Web Service methods are members of either the default binding for a Web Service or in a binding specified within a **System.Web.Services.WebServiceBindingAttribute** applied to a Web Service. A Web Service can implement multiple bindings, by applying multiple **System.Web.Services.WebServiceBindingAttribute** attributes to a Web Service.

OneWay

ToString

[C#] public bool OneWay {get; set;}

[C++] public: __property bool get_OneWay();public: __property void set_OneWay(bool);

[VB] Public Property OneWay As Boolean

[JScript] public function get OneWay() : Boolean;public function set OneWay(Boolean);

Description

Gets or sets whether a Web Service client waits for the Web server to finish processing a Web Service method.

When a Web Service method sets the **System.Web.Services.Protocols.SoapRpcMethodAttribute.OneWay** property to **true** , the Web Service client does not have to wait for the Web server to finish processing the Web Service method. As soon as the Web server has deserialized the **System.Web.Services.Protocols.SoapServerMessage** , but before invoking the Web Service method, the server returns an HTTP 202 status code. A HTTP 202 status code indicates to the client that the Web server has started processing of the message. Therefore, a Web Service client receives no acknowledgment that the Web server successfully processed the message.

RequestElementName

ToString

```
[C#] public string RequestElementName {get; set;}
[C++] public: __property String* get_RequestElementName();public: __property
void set_RequestElementName(String*);
[VB] Public Property RequestElementName As String
[JScript] public function get RequestElementName() : String;public function set
RequestElementName(String);
```

Description

Gets or sets the XML element associated with the SOAP request for a Web Service method.

The **System.Web.Services.Protocols.SoapRpcMethodAttribute.RequestElementNa**

me defines the XML element used to wrap the parameters beneath the **Body** element of the SOAP request.

RequestNamespace

ToString

[C#] public string RequestNamespace {get; set;}

[C++] public: __property String* get_RequestNamespace();public: __property void set_RequestNamespace(String*);

[VB] Public Property RequestNamespace As String

[JScript] public function get RequestNamespace() : String;public function set RequestNamespace(String);

Description

Gets or sets the XML namespace associated with the SOAP request for a Web Service method.

ResponseElementName

ToString

[C#] public string ResponseElementName {get; set;}

[C++] public: __property String* get_ResponseElementName();public: __property void set_ResponseElementName(String*);

[VB] Public Property ResponseElementName As String

[JScript] public function get ResponseElementName() : String;public function set ResponseElementName(String);

Description

Gets or sets the XML element associated with the SOAP response for a Web Service method.

The **System.Web.Services.Protocols.SoapRpcMethodAttribute.ResponseElementName** defines the XML element used to wrap the parameters beneath the **Body** element of the SOAP response.

ResponseNamespace

ToString

[C#] public string ResponseNamespace {get; set;}

[C++] public: __property String* get_ResponseNamespace();public: __property void set_ResponseNamespace(String*);

[VB] Public Property ResponseNamespace As String

[JScript] public function get ResponseNamespace() : String;public function set ResponseNamespace(String);

Description

Gets or sets the XML namespace associated with the SOAP response for a Web Service method.

The **System.Web.Services.Protocols.SoapRpcMethodAttribute.ResponseNamespace** property is used in the XSD schema for the Web Service method in its Service Description.

TypeId

SoapRpcServiceAttribute class (System.Web.Services.Protocols)

ToString

Description

Applying the optional **System.Web.Services.Protocols.SoapRpcServiceAttribute** to a Web Service sets the default format of SOAP requests and responses sent to and from Web Service methods within the Web Service.

The **System.Web.Services.Protocols.SoapRpcServiceAttribute** allows you to set the default encoding styles for Web Service methods within a Web Service to use RPC method encoding and **System.Web.Services.Description.SoapBindingUse.Encoded** parameter encoding.

SoapRpcServiceAttribute

Example Syntax:

ToString

[C#] public SoapRpcServiceAttribute();

[C++] public: SoapRpcServiceAttribute();

[VB] Public Sub New()

[JScript] public function SoapRpcServiceAttribute();

Description

Initializes a new instance of the **System.Web.Services.Protocols.SoapRpcServiceAttribute** class.

RoutingStyle

ToString

[C#] public SoapServiceRoutingStyle RoutingStyle {get; set;}

[C++] public: __property SoapServiceRoutingStyle get_RoutingStyle();public: __property void set_RoutingStyle(SoapServiceRoutingStyle);

[VB] Public Property RoutingStyle As SoapServiceRoutingStyle

[JScript] public function get RoutingStyle() : SoapServiceRoutingStyle;public function set RoutingStyle(SoapServiceRoutingStyle);

Description

TypeId

SoapServerMessage class (System.Web.Services.Protocols)

ToString

Description

Represents the data in a SOAP request received or a SOAP response sent by a Web Service method at a specific **System.Web.Services.Protocols.SoapMessageStage** .

Action

ToString

```
[C#] public override string Action {get;}
[C++] public: __property virtual String* get_Action();
[VB] Overrides Public ReadOnly Property Action As String
[JScript] public function get Action() : String;
```

Description

Gets the SOAPAction HTTP request header field for the SOAP request or SOAP response.

The **System.Web.Services.Protocols.SoapServerMessage.Action** property can be accessed during any **System.Web.Services.Protocols.SoapMessageStage** .

ContentType

Exception

Headers

MethodInfo

ToString

Description

Gets a representation of the method prototype for the Web Service method for which the SOAP request is intended.

Although the **System.Web.Services.Protocols.SoapServerMessage.MethodInfo** property can be accessed during any stage, the method information is only available during

System.Web.Services.Protocols.SoapMessageStage.AfterDeserialize and **System.Web.Services.Protocols.SoapMessageStage.BeforeSerialize** .

OneWay

ToString

[C#] public override bool OneWay {get;}

[C++] public: __property virtual bool get_OneWay();

[VB] Overrides Public ReadOnly Property OneWay As Boolean

[JScript] public function get OneWay() : Boolean;

Description

Gets a value indicating whether the client waits for the server to finish processing a Web Service method.

A **System.Web.Services.Protocols.SoapDocumentMethodAttribute** or **System.Web.Services.Protocols.SoapRpcMethodAttribute** applied to a Web Service method or Web Service client can specify whether the Web Service method is one way or not by setting the **System.Web.Services.Protocols.SoapDocumentMethodAttribute.OneWay** property of the attribute.

Server

ToString

[C#] public object Server {get;}

[C++] public: __property Object* get_Server();

[VB] Public ReadOnly Property Server As Object

[JScript] public function get Server() : Object;

Description

Gets the instance of the class handling the method invocation on the Web server **System.Web.Services.Protocols.SoapMessageStage** is not **System.Web.Services.Protocols.SoapMessageStage.AfterDeserialize** or **System.Web.Services.Protocols.SoapMessageStage.BeforeSerialize** .

The **System.Web.Services.Protocols.SoapServerMessage.Server** property is an instance of the class implementing the Web Service. If a SOAP extension knew ahead of time the type of the class, it could cast **System.Web.Services.Protocols.SoapServerMessage.Server** to that type and access properties and methods of the class implementing the Web Service.

Stage

Stream

Url

ToString

Description

Gets the base url of the Web Service.

The **System.Web.Services.Protocols.SoapServerMessage.Url** property can be accessed during any **System.Web.Services.Protocols.SoapMessageStage**

.

EnsureInStage

[C#] protected override void EnsureInStage();

[C++] protected: void EnsureInStage();

[VB] Overrides Protected Sub EnsureInStage()

[JScript] protected override function EnsureInStage();

Description

Asserts that the current **System.Web.Services.Protocols.SoapMessageStage** stage is a stage where in parameters are available. If not, an exception is thrown.

For Web Service methods, the in parameters are available after the SOAP request in the deserialization process in the **System.Web.Services.Protocols.SoapMessageStage.AfterDeserialize** stage. The **System.InvalidOperationException** is thrown if **System.Web.Services.Protocols.SoapServerMessage.EnsureInStage** method is invoked in any other **System.Web.Services.Protocols.SoapMessageStage** .

EnsureOutStage

[C#] protected override void EnsureOutStage();

[C++] protected: void EnsureOutStage();

[VB] Overrides Protected Sub EnsureOutStage()

[JScript] protected override function EnsureOutStage();

Description

Asserts that the current **System.Web.Services.Protocols.SoapMessageStage** stage is a stage where out parameters are available. If not, an exception is thrown.

For Web Service methods, the out parameters are available prior to the SOAP response serialization process in the **System.Web.Services.Protocols.SoapMessageStage.BeforeSerialize** stage. The **System.InvalidOperationException** is thrown if **System.Web.Services.Protocols.SoapServerMessage.EnsureOutStage** method is invoked in any other **System.Web.Services.Protocols.SoapMessageStage** .

SoapServiceRoutingStyle enumeration (System.Web.Services.Protocols)

ToString

ToString

ToString

SoapUnknownHeader class (System.Web.Services.Protocols)

ToString

Description

Represents the data received from a SOAP header that was not understood by the recipient Web Service or Web Service client. This class cannot be inherited.

A SOAP client may invoke a Web Service with additional data beyond just the required parameters in the form of a SOAP header. An ASP.NET Web Service or Web Service client can view any SOAP headers it did not know about at the time the Web Service was written by applying a **System.Web.Services.Protocols.SoapHeaderAttribute** with a

System.Web.Services.Protocols.SoapHeaderAttribute.MemberName property of either an array of **System.Web.Services.Protocols.SoapHeader** , **System.Web.Services.Protocols.SoapHeader** , **System.Web.Services.Protocols.SoapUnknownHeader** or an array of **System.Web.Services.Protocols.SoapUnknownHeader** to the Web Service method. Specifiying a **System.Type** of **System.Web.Services.Protocols.SoapUnknownHeader** , allows the Web Service to view the contents of the SOAP header and attempt to understand the semantics of the SOAP header, in the form of an **System.Xml.XmlElement** .

SoapUnknownHeader

Example Syntax:

ToString

```
[C#] public SoapUnknownHeader();
[C++] public: SoapUnknownHeader();
[VB] Public Sub New()
[JScript] public function SoapUnknownHeader();
```

Actor

DidUnderstand

Element

ToString

Description

Gets or sets the XML Header element for a SOAP request or response.

If a Web Service method wants to process SOAP headers it doesn't know about at the time the Web Service is written, a Web Service method can process an **System.Xml.XmlElement** class representing the raw XML of the SOAP header.

EncodedMustUnderstand

MustUnderstand

TextReturnReader class (System.Web.Services.Protocols)

ToString

Description

TextReturnReader

Example Syntax:

ToString

[C#] public TextReturnReader();

[C++] public: TextReturnReader();

[VB] Public Sub New()

[JScript] public function TextReturnReader();

GetInitializer

[C#] public override object GetInitializer(LogicalMethodInfo methodInfo);

[C++] public: Object* GetInitializer(LogicalMethodInfo* methodInfo);

[VB] Overrides Public Function GetInitializer(ByVal methodInfo As LogicalMethodInfo) As Object

[JScript] public override function GetInitializer(methodInfo : LogicalMethodInfo) : Object;

Description

Initialize

[C#] public override void Initialize(object o);

[C++] public: void Initialize(Object* o);

[VB] Overrides Public Sub Initialize(ByVal o As Object)

[JScript] public override function Initialize(o : Object);

Description

Read

[C#] public override object Read(WebResponse response, Stream responseStream);

[C++] public: Object* Read(WebResponse* response, Stream* responseStream);

[VB] Overrides Public Function Read(ByVal response As WebResponse, ByVal responseStream As Stream) As Object

[JScript] public override function Read(response : WebResponse, responseStream : Stream) : Object;

Description

UrlEncodedParameterWriter class (System.Web.Services.Protocols)

ToString

Description

UrlEncodedParameterWriter

Example Syntax:

ToString

[C#] protected UrlEncodedParameterWriter();

[C++] protected: UrlEncodedParameterWriter();

[VB] Protected Sub New()

[JScript] protected function UrlEncodedParameterWriter();

RequestEncoding

ToString

[C#] public override Encoding RequestEncoding {get; set;}

[C++] public: __property virtual Encoding* get_RequestEncoding();public: __property virtual void set_RequestEncoding(Encoding*);

[VB] Overrides Public Property RequestEncoding As Encoding

[JScript] public function get RequestEncoding() : Encoding;public function set RequestEncoding(Encoding);

Description

UsesWriteRequest

Encode

[C#] protected void Encode(TextWriter writer, object[] values);

[C++] protected: void Encode(TextWriter* writer, Object* values __gc[]);

[VB] Protected Sub Encode(ByVal writer As TextWriter, ByVal values() As Object)

[JScript] protected function Encode(writer : TextWriter, values : Object[]);

Description

Encode

[C#] protected void Encode(TextWriter writer, string name, object value);

[C++] protected: void Encode(TextWriter* writer, String* name, Object* value);

[VB] Protected Sub Encode(ByVal writer As TextWriter, ByVal name As String, ByVal value As Object)

[JScript] protected function Encode(writer : TextWriter, name : String, value : Object);

Description

GetInitializer

```
[C#] public override object GetInitializer(LogicalMethodInfo methodInfo);
[C++] public: Object* GetInitializer(LogicalMethodInfo* methodInfo);
[VB] Overrides Public Function GetInitializer(ByVal methodInfo As LogicalMethodInfo) As Object
[JScript] public override function GetInitializer(methodInfo : LogicalMethodInfo) : Object;
```

Description

Initialize

```
[C#] public override void Initialize(object initializer);
[C++] public: void Initialize(Object* initializer);
[VB] Overrides Public Sub Initialize(ByVal initializer As Object)
[JScript] public override function Initialize(initializer : Object);
```

Description

UrlParameterReader class (System.Web.Services.Protocols)

WriteRequest

Description

UrlParameterReader

Example Syntax:

WriteRequest

[C#] public UrlParameterReader();

[C++] public: UrlParameterReader();

[VB] Public Sub New()

[JScript] public function UrlParameterReader();

Read

[C#] public override object[] Read(HttpRequest request);

[C++] public: Object* Read(HttpRequest* request) __gc[];

[VB] Overrides Public Function Read(ByVal request As HttpRequest) As Object()

[JScript] public override function Read(request : HttpRequest) : Object[];

Description

UrlParameterWriter class (System.Web.Services.Protocols)

ToString

Description

UrlParameterWriter

Example Syntax:

ToString

[C#] public UrlParameterWriter();

[C++] public: UrlParameterWriter();

[VB] Public Sub New()

[JScript] public function UrlParameterWriter();

RequestEncoding

UsesWriteRequest

GetRequestUrl

[C#] public override string GetRequestUrl(string url, object[] parameters);

[C++] public: String* GetRequestUrl(String* url, Object* parameters __gc[]);

[VB] Overrides Public Function GetRequestUrl(ByVal url As String, ByVal parameters() As Object) As String

[JScript] public override function GetRequestUrl(url : String, parameters : Object[]) : String;

Description

ValueCollectionParameterReader class (System.Web.Services.Protocols)

WriteRequest

Description

ValueCollectionParameterReader

Example Syntax:

WriteRequest

[C#] protected ValueCollectionParameterReader();

[C++] protected: ValueCollectionParameterReader();

[VB] Protected Sub New()

[JScript] protected function ValueCollectionParameterReader();

GetInitializer

[C#] public override object GetInitializer(LogicalMethodInfo methodInfo);

[C++] public: Object* GetInitializer(LogicalMethodInfo* methodInfo);

[VB] Overrides Public Function GetInitializer(ByVal methodInfo As LogicalMethodInfo) As Object

[JScript] public override function GetInitializer(methodInfo : LogicalMethodInfo) : Object;

Description

Initialize

[C#] public override void Initialize(object o);

[C++] public: void Initialize(Object* o);

[VB] Overrides Public Sub Initialize(ByVal o As Object)

[JScript] public override function Initialize(o : Object);

Description

IsSupported

[C#] public static bool IsSupported(LogicalMethodInfo methodInfo);

[C++] public: static bool IsSupported(LogicalMethodInfo* methodInfo);

[VB] Public Shared Function IsSupported(ByVal methodInfo As LogicalMethodInfo) As Boolean

[JScript] public static function IsSupported(methodInfo : LogicalMethodInfo) : Boolean;

Description

IsSupported

[C#] public static bool IsSupported(ParameterInfo paramInfo);

[C++] public: static bool IsSupported(ParameterInfo* paramInfo);

[VB] Public Shared Function IsSupported(ByVal paramInfo As ParameterInfo) As Boolean

[JScript] public static function IsSupported(paramInfo : ParameterInfo) : Boolean;

Description

Read

[C#] protected object[] Read(NameValueCollection collection);

[C++] protected: Object* Read(NameValueCollection* collection) __gc[];

[VB] Protected Function Read(ByVal collection As NameValueCollection) As Object()

[JScript] protected function Read(collection : NameValueCollection) : Object[];

Description

WebClientAsyncResult class (System.Web.Services.Protocols)

ToString

Description

AsyncState

ToString

[C#] public object AsyncState {get;}

[C++] public: __property Object* get_AsyncState();

[VB] Public ReadOnly Property AsyncState As Object

[JScript] public function get AsyncState() : Object;

Description

AsyncWaitHandle

ToString

[C#] public WaitHandle AsyncWaitHandle {get;}

[C++] public: __property WaitHandle* get_AsyncWaitHandle();

[VB] Public ReadOnly Property AsyncWaitHandle As WaitHandle

[JScript] public function get AsyncWaitHandle() : WaitHandle;

Description

CompletedSynchronously

ToString

[C#] public bool CompletedSynchronously {get;}

[C++] public: __property bool get_CompletedSynchronously();

[VB] Public ReadOnly Property CompletedSynchronously As Boolean

[JScript] public function get CompletedSynchronously() : Boolean;

Description

Gets a value indicating whether the invocation of the Web Service method completed synchronously.

IsCompleted

ToString

[C#] public bool IsCompleted {get;}

[C++] public: __property bool get_IsCompleted();

[VB] Public ReadOnly Property IsCompleted As Boolean

[JScript] public function get IsCompleted() : Boolean;

Description

Gets a value indicating whether the asynchronous request has completed.

Abort

[C#] public void Abort();

[C++] public: void Abort();

[VB] Public Sub Abort()

[JScript] public function Abort();

Description

WebClientProtocol class (System.Web.Services.Protocols)

ToString

Description

Specifies the base class for all ASP.NET Web Service client proxies.

ASP.NET incorporates two distinct functionalities of Web Services: building ASP.NET Web Services and building Web Service clients. If you are building a Web Service client using ASP.NET, you must create a proxy class deriving indirectly or directly from **System.Web.Services.Protocols.WebClientProtocol** for the Web Service you want to call.

WebClientProtocol

Example Syntax:

ToString

[C#] protected WebClientProtocol();

[C++] protected: WebClientProtocol();

[VB] Protected Sub New()

[JScript] protected function WebClientProtocol();

Description

Initializes a new instance of the **System.Web.Services.Protocols.WebClientProtocol** class.

ConnectionGroupName

ToString

[C#] public string ConnectionGroupName {get; set;}

[C++] public: __property String* get_ConnectionGroupName();public: __property void set_ConnectionGroupName(String*);

[VB] Public Property ConnectionGroupName As String

[JScript] public function get ConnectionGroupName() : String;public function set ConnectionGroupName(String);

Description

Gets or sets the name of the connection group for the request.

The **System.Web.Services.Protocols.WebClientProtocol.ConnectionGroupName** property enables you to associate a request to a connection group. For more details, see **System.Net.HttpWebRequest.ConnectionGroupName** .

Container

Credentials

ToString

Description

Gets or sets security credentials for Web Service client authentication.

When using the **Credentials** property, a Web Service client must instantiate a class implementing **System.Net.ICredentials** , such as **System.Net.NetworkCredential** , and then set the client credentials specific to the authentication mechanism. The **System.Net.NetworkCredential** class can be used to set authentication credentials using the basic, digest, NTLM and Kerberos authentication mechanisms.

DesignMode

Events

PreAuthenticate

ToString

Description

Gets or sets whether pre-authentication is enabled.

When **System.Web.Services.Protocols.WebClientProtocol.PreAuthenticate** is **true** , the **WWW-authenticate** header is sent with each request back to the server, otherwise standard authentication procedures are used. When **System.Web.Services.Protocols.WebClientProtocol.PreAuthenticate** is **false** , the authentication headers are sent only on the first request.

RequestEncoding

ToString

[C#] public Encoding RequestEncoding {get; set;}

[C++] public: __property Encoding* get_RequestEncoding();public: __property void set_RequestEncoding(Encoding*);

[VB] Public Property RequestEncoding As Encoding

[JScript] public function get RequestEncoding() : Encoding;public function set RequestEncoding(Encoding);

Description

The **System.Text.Encoding** used to make the client request to the Web Service.

The **System.Web.Services.Protocols.WebClientProtocol.RequestEncoding** determines the encoding for the request message. The **System.Net.WebRequest.ContentType** of the request will be annotated with the encoding value.

Site

Timeout

ToString

Description

Indicates the time a Web Service client waits for a synchronous Web Service request to complete (in milliseconds).

Even though a Web Service client can set the **System.Web.Services.Protocols.WebClientProtocol.Timeout** property to infinity with a value of -1, the Web Server can still cause the request to time out on the server side.

Url

ToString

```
[C#] public string Url {get; set;}
[C++] public: __property String* get_Url();public: __property void
set_Url(String*);
[VB] Public Property Url As String
[JScript] public function get Url() : String;public function set Url(String);
```

Description

Gets or sets the base URL of the Web Service the client is requesting.

Proxy classes generated using Wsdl.exe will set a default **System.Web.Services.Protocols.WebClientProtocol.Url** property for the client to use. The default **System.Web.Services.Protocols.WebClientProtocol.Url** is determined by the location attribute found in the Service Description from which the proxy class was generated.

Abort

[C#] public virtual void Abort();

[C++] public: virtual void Abort();

[VB] Overridable Public Sub Abort()

[JScript] public function Abort();

Description

Cancels a request to a Internet resource.

Return Value: **System.Web.Services.Protocols.WebClientProtocol.Abort** cancels a reqeust to a resource made using the **System.Web.Services.Protocols.WebClientProtocol.GetWebRequest(System.Uri)** method. After the request is canceled, invoking **System.Web.Services.Protocols.WebClientProtocol.GetWebResponse(System.Net.WebRequest)** will cause a **System.Net.WebException** .

AddToCache

[C#] protected static void AddToCache(Type type, object value);

[C++] protected: static void AddToCache(Type* type, Object* value);

[VB] Protected Shared Sub AddToCache(ByVal type As Type, ByVal value As Object)

[JScript] protected static function AddToCache(type : Type, value : Object);

Description

Add an instance of the client protocol handler to the cache.

GetFromCache

[C#] protected static object GetFromCache(Type type);

[C++] protected: static Object* GetFromCache(Type* type);

[VB] Protected Shared Function GetFromCache(ByVal type As Type) As Object

[JScript] protected static function GetFromCache(type : Type) : Object;

Description

Gets an instance of a client protocol handler from the cache.

GetWebRequest

[C#] protected virtual WebRequest GetWebRequest(Uri uri);

[C++] protected: virtual WebRequest* GetWebRequest(Uri* uri);

[VB] Overridable Protected Function GetWebRequest(ByVal uri As Uri) As WebRequest

[JScript] protected function GetWebRequest(uri : Uri) : WebRequest;

Description

Creates a **System.Net.WebRequest** instance for the specified *url* .

Return Value: The **System.Net.WebRequest** instance.

This method can be overridden to customize the **System.Net.WebRequest** object before the Web Service request is made. For example you could add a custom header to the request. The **System.Uri** to use when creating the **System.Net.WebRequest**.

GetWebResponse

[C#] protected virtual WebResponse GetWebResponse(WebRequest request);

[C++] protected: virtual WebResponse* GetWebResponse(WebRequest* request);

[VB] Overridable Protected Function GetWebResponse(ByVal request As WebRequest) As WebResponse

[JScript] protected function GetWebResponse(request : WebRequest) : WebResponse; Returns a response from a request to a Web Service method.

Description

Returns a response from a synchronous request to a Web Service method.

Return Value: A **System.Net.WebResponse** . The **System.Net.WebRequest** to get the response from.

GetWebResponse

[C#] protected virtual WebResponse GetWebResponse(WebRequest request, IAsyncResult result);

[C++] protected: virtual WebResponse* GetWebResponse(WebRequest* request, IAsyncResult* result);

[VB] Overridable Protected Function GetWebResponse(ByVal request As WebRequest, ByVal result As IAsyncResult) As WebResponse

[JScript] protected function GetWebResponse(request : WebRequest, result : IAsyncResult) : WebResponse;

Description

Returns a response from an asynchronous request to a Web Service method.

Return Value: The **System.Net.WebResponse** instance. The **System.Net.WebRequest** to get the response from. The **System.IAsyncResult** to pass to **System.Net.HttpWebRequest.EndGetResponse(System.IAsyncResult)**. when the response has completed.

WebServiceHandlerFactory class (System.Web.Services.Protocols)

ToString

Description

WebServiceHandlerFactory

Example Syntax:

ToString

[C#] public WebServiceHandlerFactory();

[C++] public: WebServiceHandlerFactory();

[VB] Public Sub New()

[JScript] public function WebServiceHandlerFactory();

GetHandler

[C#] public IHttpHandler GetHandler(HttpContext context, string verb, string url, string filePath);

[C++] public: __sealed IHttpHandler* GetHandler(HttpContext* context, String* verb, String* url, String* filePath);

[VB] NotOverridable Public Function GetHandler(ByVal context As HttpContext, ByVal verb As String, ByVal url As String, ByVal filePath As String) As IHttpHandler

[JScript] public function GetHandler(context : HttpContext, verb : String, url : String, filePath : String) : IHttpHandler;

Description

ReleaseHandler

[C#] public void ReleaseHandler(IHttpHandler handler);

[C++] public: __sealed void ReleaseHandler(IHttpHandler* handler);

[VB] NotOverridable Public Sub ReleaseHandler(ByVal handler As IHttpHandler)

[JScript] public function ReleaseHandler(handler : IHttpHandler);

Description

XmlReturnReader class (System.Web.Services.Protocols)

ToString

Description

XmlReturnReader

Example Syntax:

ToString

[C#] public XmlReturnReader();

[C++] public: XmlReturnReader();

[VB] Public Sub New()

[JScript] public function XmlReturnReader();

GetInitializer

[C#] public override object GetInitializer(LogicalMethodInfo methodInfo);

[C++] public: Object* GetInitializer(LogicalMethodInfo* methodInfo);

[VB] Overrides Public Function GetInitializer(ByVal methodInfo As LogicalMethodInfo) As Object

[JScript] public override function GetInitializer(methodInfo : LogicalMethodInfo) : Object;

Description

GetInitializers

[C#] public override object[] GetInitializers(LogicalMethodInfo[] methodInfos);

[C++] public: Object* GetInitializers(LogicalMethodInfo* methodInfos[]) __gc[];

[VB] Overrides Public Function GetInitializers(ByVal methodInfos() As LogicalMethodInfo) As Object()

[JScript] public override function GetInitializers(methodInfos : LogicalMethodInfo[]) : Object[];

Description

Initialize

[C#] public override void Initialize(object o);

[C++] public: void Initialize(Object* o);

[VB] Overrides Public Sub Initialize(ByVal o As Object)

[JScript] public override function Initialize(o : Object);

Description

Read

[C#] public override object Read(WebResponse response, Stream responseStream);

System.Web.SessionState

Description

HttpSessionState class (System.Web.SessionState)

Description

Provides access to session state values as well as session-level settings and lifetime management methods.

Properties:

CodePage

[C#] public int CodePage {get; set;}

[C++] public: __property int get_CodePage();public: __property void set_CodePage(int);

[VB] Public Property CodePage As Integer

[JScript] public function get CodePage() : int;public function set CodePage(int);

Description

Gets or sets the code page identifier for the current session.

Contents

[C#] public HttpSessionState Contents {get;}

[C++] public: __property HttpSessionState* get_Contents();

[VB] Public ReadOnly Property Contents As HttpSessionState

[JScript] public function get Contents() : HttpSessionState;

Description

Gets a reference to the current session state object.

Contents is provided for legacy ASP compatibility.

Count

[C#] public int Count {get;}

[C++] public: __property int get_Count();

[VB] Public ReadOnly Property Count As Integer

[JScript] public function get Count() : int;

Description

Gets the number of items in the session state collection.

IsCookieless

[C#] public bool IsCookieless {get;}

[C++] public: __property bool get_IsCookieless();

[VB] Public ReadOnly Property IsCookieless As Boolean

[JScript] public function get IsCookieless() : Boolean;

Description

Gets a value indicating whether the session is managed using cookieless session.

IsNewSession

[C#] public bool IsNewSession {get;}

[C++] public: __property bool get_IsNewSession();

[VB] Public ReadOnly Property IsNewSession As Boolean

[JScript] public function get IsNewSession() : Boolean;

Description

Gets a value indicating whether the session has been created with the current request.

IsReadOnly

[C#] public bool IsReadOnly {get;}

[C++] public: __property bool get_IsReadOnly();

[VB] Public ReadOnly Property IsReadOnly As Boolean

[JScript] public function get IsReadOnly() : Boolean;

Description

Gets a value indicating whether the session is read-only.

IsSynchronized

[C#] public bool IsSynchronized {get;}

[C++] public: __property bool get_IsSynchronized();

[VB] Public ReadOnly Property IsSynchronized As Boolean

[JScript] public function get IsSynchronized() : Boolean;

Description

Gets a value indicating whether access to the collection of session state values is read-only (thread-safe).

Item

[C#] public object this[string name] {get; set;}

[C++] public: __property Object* get_Item(String* name);public: __property void set_Item(String* name, Object*);

[VB] Public Default Property Item(ByVal name As String) As Object

[JScript] returnValue = HttpSessionStateObject.Item(name);HttpSessionStateObject.Item(name) = returnValue; Gets or sets individual session values.

Description

Gets or sets a session value by name. The key name of the session value.

Item

[C#] public object this[int index] {get; set;}

[C++] public: __property Object* get_Item(int index);public: __property void set_Item(int index, Object*);

[VB] Public Default Property Item(ByVal index As Integer) As Object

[JScript] returnValue =

HttpSessionStateObject.Item(index);HttpSessionStateObject.Item(index) = returnValue;

Description

Gets or sets a session value by numerical index. The numerical index of the session value.

Keys

[C#] public NameObjectCollectionBase.KeysCollection Keys {get;}

[C++] public: __property NameObjectCollectionBase.KeysCollection* get_Keys();

[VB] Public ReadOnly Property Keys As NameObjectCollectionBase.KeysCollection

[JScript] public function get Keys() : NameObjectCollectionBase.KeysCollection;

Description

Gets a collection of all session keys.

LCID

[C#] public int LCID {get; set;}

[C++] public: __property int get_LCID();public: __property void set_LCID(int);

[VB] Public Property LCID As Integer

[JScript] public function get LCID() : int;public function set LCID(int);

Description

Gets or sets the locale identifier (LCID) of the current session.

Mode

```
[C#] public SessionStateMode Mode {get;}
[C++] public: __property SessionStateMode get_Mode();
[VB] Public ReadOnly Property Mode As SessionStateMode
[JScript] public function get Mode() : SessionStateMode;
```

Description

Gets the current session state mode.

SessionID

```
[C#] public string SessionID {get;}
[C++] public: __property String* get_SessionID();
[VB] Public ReadOnly Property SessionID As String
[JScript] public function get SessionID() : String;
```

Description

Gets the unique session ID used to identify a session.

StaticObjects

```
[C#] public HttpStaticObjectsCollection StaticObjects {get;}
[C++] public: __property HttpStaticObjectsCollection* get_StaticObjects();
[VB] Public ReadOnly Property StaticObjects As HttpStaticObjectsCollection
[JScript] public function get StaticObjects() : HttpStaticObjectsCollection;
```

Description

Gets a collection of objects declared by

System.Web.UI

Description

The System.Web.UI namespace provides classes and interfaces that allow you to create controls and pages that will appear in your Web applications as user interface on a Web page. This namespace includes the Control class, which provides all controls, whether HTML, Web, or User controls, with a common set of functionality. It also includes the Page control, which is generated automatically whenever a request is made for a page in your Web application. Also provided are classes which provide the Web Forms Server Controls data binding functionality, the ability to save the view state of a given control or page, as well as parsing functionality for both programmable and literal controls.

AttributeCollection class (System.Web.UI)

Description

Provides object-model access to all attributes declared in the opening tag of an ASP.NET server control element. This class cannot be inherited.

Attributes are case-insensitive strings. They return a **System.String** object as their value. If there are no attributes in the collection, they return **null** .

Constructors:

AttributeCollection

Example Syntax:

```
[C#] public AttributeCollection(StateBag bag);
[C++] public: AttributeCollection(StateBag* bag);
[VB] Public Sub New(ByVal bag As StateBag)
[JScript] public function AttributeCollection(bag : StateBag);
```

Description

Initializes a new instance of the **System.Web.UI.AttributeCollection** class. A **System.Web.UI.StateBag** object that contains the attribute keys and their values that are in the opening tag of the server control.

Properties:

Count

```
[C#] public int Count {get;}
[C++] public: __property int get_Count();
[VB] Public ReadOnly Property Count As Integer
[JScript] public function get Count() : int;
```

Description

Gets the number of attributes in the **System.Web.UI.AttributeCollection** object.

CssStyle

```
[C#] public CssStyleCollection CssStyle {get;}
[C++] public: __property CssStyleCollection* get_CssStyle();
[VB] Public ReadOnly Property CssStyle As CssStyleCollection
[JScript] public function get CssStyle() : CssStyleCollection;
```

Description

Gets a collection of styles for the ASP.NET server control to which the current **System.Web.UI.AttributeCollection** object belongs.

Any style declared for a particular HTML server control is added to the **CssStyleCollection** object when the containing Web Forms page is parsed. You can use this property to add, remove and iterate through the styles declared for the server control.

Item

```
[C#] public string this[string key] {get; set;}
[C++] public: __property String* get_Item(String* key);public: __property void set_Item(String* key, String*);
[VB] Public Default Property Item(ByVal key As String) As String
[JScript] returnValue = AttributeCollectionObject.Item(key);AttributeCollectionObject.Item(key) = returnValue;
```

Description

Gets or sets a specified attribute value for a server control. The location of the attribute within the collection.

Keys

```
[C#] public ICollection Keys {get;}
[C++] public: __property ICollection* get_Keys();
[VB] Public ReadOnly Property Keys As ICollection
[JScript] public function get Keys() : ICollection;
```

Description

Gets a collection of keys to all attributes in the server control's **System.Web.UI.AttributeCollection** object.

Methods:

Add

```
[C#] public void Add(string key, string value);
[C++] public: void Add(String* key, String* value);
[VB] Public Sub Add(ByVal key As String, ByVal value As String)
[JScript] public function Add(key : String, value : String);
```

Description

Adds an attribute to a server contol's **System.Web.UI.AttributeCollection** object. The index assigned to the new attribute in the collection. The attribute to store in the collection.

AddAttributes

[C#] public void AddAttributes(HtmlTextWriter writer);
[C++] public: void AddAttributes(HtmlTextWriter* writer);
[VB] Public Sub AddAttributes(ByVal writer As HtmlTextWriter)
[JScript] public function AddAttributes(writer : HtmlTextWriter);

Description

Adds attributes from the **AttributeCollection** class to the **System.Web.UI.HtmlTextWriter** object that is responsible for rendering the attributes as HTML to an ASP.NET server control.

This method copies all of the server control's attributes to an **System.Web.UI.HtmlTextWriter** object so they can be rendered by the next call to the **System.Web.UI.HtmlTextWriter.RenderBeginTag(System.String)** method. An **System.Web.UI.HtmlTextWriter** that writes the added attribute to the opening tag of an ASP.NET server control.

Clear

[C#] public void Clear();
[C++] public: void Clear();
[VB] Public Sub Clear()
[JScript] public function Clear();

Description

Removes all attributes from a server control's **System.Web.UI.AttributeCollection** object.

Remove

```
[C#] public void Remove(string key);
[C++] public: void Remove(String* key);
[VB] Public Sub Remove(ByVal key As String)
[JScript] public function Remove(key : String);
```

Description

Removes an attribute from a server control's **System.Web.UI.AttributeCollection** object. The index of the attribute to remove.

Render

```
[C#] public void Render(HtmlTextWriter writer);
[C++] public: void Render(HtmlTextWriter* writer);
[VB] Public Sub Render(ByVal writer As HtmlTextWriter)
[JScript] public function Render(writer : HtmlTextWriter);
```

Description

Writes the collection of attributes to the specified **System.Web.UI.HtmlTextWriter** output stream. In turn, the output stream writes the collection to the Web Forms page. An **System.Web.UI.HtmlTextWriter** object that writes the attribute collection to the opening HTML tag.

AutomaticHandlerMethodInfos class (System.Web.UI)

ToString

Description

AutomaticHandlerMethodInfos

Example Syntax:

ToString

[C#] public AutomaticHandlerMethodInfos();

[C++] public: AutomaticHandlerMethodInfos();

[VB] Public Sub New()

[JScript] public function AutomaticHandlerMethodInfos();

BaseParser class (System.Web.UI)

ToString

Description

Provides a base set of functionality for all parsers involved in parsing ASP.NET page requests. This includes parsing of all ASP.NET server controls, including pages and user controls.

BaseParser

Example Syntax:

ToString

[C#] public BaseParser();

[C++] public: BaseParser();

[VB] Public Sub New()

[JScript] public function BaseParser();

BasePartialCachingControl class (System.Web.UI)

ToString

Description

Provides a base set of functionality for the **System.Web.UI.StaticPartialCachingControl** and the **System.Web.UI.PartialCachingControl** classes.

BasePartialCachingControl

Example Syntax:

ToString

[C#] protected BasePartialCachingControl();

[C++] protected: BasePartialCachingControl();

[VB] Protected Sub New()

[JScript] protected function BasePartialCachingControl();

ChildControlsCreated

ClientID

Context

Controls

Dependency

ToString

Description

Gets or sets an instance of the **System.Web.Caching.CacheDependency** class associated with the cached server control output.

EnableViewState

Events

HasChildViewState

ID

IsTrackingViewState

NamingContainer

Page

Parent

Site

TemplateSourceDirectory

UniqueID

ViewState

ViewStateIgnoresCase

Visible

Dispose

[C#] public override void Dispose();

[C++] public: void Dispose();

[VB] Overrides Public Sub Dispose()

[JScript] public override function Dispose();

Description

OnInit

[C#] protected override void OnInit(EventArgs e);

[C++] protected: void OnInit(EventArgs* e);

[VB] Overrides Protected Sub OnInit(ByVal e As EventArgs)

[JScript] protected override function OnInit(e : EventArgs);

Description

Raises the **Init** event for the server control to be output cached.

This method checks the cache for the content associated with the server control. If it is not there, the server control is created and added to the parent control's **System.Web.UI.ControlCollection** object. An **System.EventArgs** object that contains the event data.

Render

[C#] protected override void Render(HtmlTextWriter output);

[C++] protected: void Render(HtmlTextWriter* output);

[VB] Overrides Protected Sub Render(ByVal output As HtmlTextWriter)

[JScript] protected override function Render(output : HtmlTextWriter);

Description

Outputs the server control's content to the **System.Web.UI.HtmlTextWriter** output stream. The **System.Web.UI.HtmlTextWriter** object that writes the cached control to the page.

BuildMethod delegate (System.Web.UI)

TrackViewState

Description

Represents the method that is used to build a **System.Web.UI.Control** .

This delegate passes the information necessary to build ASP.NET server controls as defined by the TemplateControl class, or one of the classes that inherit from TemplateControl, Page and UserControl.

BuildTemplateMethod delegate (System.Web.UI)

TrackViewState

Description

CompiledTemplateBuilder class (System.Web.UI)

TrackViewState

Description

CompiledTemplateBuilder

Example Syntax:

TrackViewState

[C#] public CompiledTemplateBuilder(BuildTemplateMethod buildTemplateMethod);

[C++] public: CompiledTemplateBuilder(BuildTemplateMethod* buildTemplateMethod);

[VB] Public Sub New(ByVal buildTemplateMethod As BuildTemplateMethod)

[JScript] public function CompiledTemplateBuilder(buildTemplateMethod : BuildTemplateMethod);

Description

InstantiateIn

[C#] public void InstantiateIn(Control container);

[C++] public: __sealed void InstantiateIn(Control* container);

[VB] NotOverridable Public Sub InstantiateIn(ByVal container As Control)

[JScript] public function InstantiateIn(container : Control);

Description

ConstructorNeedsTagAttribute class (System.Web.UI)

ToString

Description

Specifies that a server control needs a tag name in its constructor.

ConstructorNeedsTagAttribute

Example Syntax:

ToString

[C#] public ConstructorNeedsTagAttribute();

[C++] public: ConstructorNeedsTagAttribute();

[VB] Public Sub New()

[JScript] public function ConstructorNeedsTagAttribute(); Initializes a new instance of the **System.Web.UI.ConstructorNeedsTagAttribute** class.

Description

Initializes a new instance of the **System.Web.UI.ConstructorNeedsTagAttribute** class.

ConstructorNeedsTagAttribute

Example Syntax:

ToString

[C#] public ConstructorNeedsTagAttribute(bool needsTag);
[C++] public: ConstructorNeedsTagAttribute(bool needsTag);
[VB] Public Sub New(ByVal needsTag As Boolean)
[JScript] public function ConstructorNeedsTagAttribute(needsTag : Boolean);

Description

Initializes a new instance of the **System.Web.UI.ConstructorNeedsTagAttribute** class. **true** to add a tag to a control; otherwise, **false**.

NeedsTag

ToString

[C#] public bool NeedsTag {get;}
[C++] public: __property bool get_NeedsTag();
[VB] Public ReadOnly Property NeedsTag As Boolean
[JScript] public function get NeedsTag() : Boolean;

Description

Indicates whether a control needs a tag in its contstructor. This property is read-only.

TypeId

Control class (System.Web.UI)

ToString

Description

Defines the properties, methods, and events that are shared by all ASP.NET server controls.

This is the primary class that you derive from when you develop custom ASP.NET server controls.

Control

Example Syntax:

ToString

[C#] public Control();

[C++] public: Control();

[VB] Public Sub New()

[JScript] public function Control();

Description

Initializes a new instance of the **System.Web.UI.Control** class.

ChildControlsCreated

ToString

[C#] protected bool ChildControlsCreated {get; set;}

[C++] protected: __property bool get_ChildControlsCreated();protected: __property void set_ChildControlsCreated(bool);

[VB] Protected Property ChildControlsCreated As Boolean

[JScript] protected function get ChildControlsCreated() : Boolean;protected function set ChildControlsCreated(Boolean);

Description

Gets a value that indicates whether the server control's child controls have been created.

ClientID

ToString

[C#] public virtual string ClientID {get;}
[C++] public: __property virtual String* get_ClientID();
[VB] Overridable Public ReadOnly Property ClientID As String
[JScript] public function get ClientID() : String;

Description

Gets the server control identifier generated by ASP.NET.

ASP.NET automatically generates a **ClientID** for a server control regardless of whether you have specified an **ID** property for it or not. A **ClilentID** is assigned to all **System.Web.UI.LiteralControl** objects (text and HTML that is not processed on the server) on a page when it is requested. You can view the **ClientID** s of each control in a page's control hierarchy by enabling tracing for the page or application. The format for automatically generated **ClientID** s is Ctrl0 for the first control on a page, Ctrl1 for the next control, Ctrl2 for the third control, and so on until all controls for the page are given a **ClientID** value.

Context

ToString

```
[C#] protected virtual HttpContext Context {get;}
[C++] protected: __property virtual HttpContext* get_Context();
[VB] Overridable Protected ReadOnly Property Context As HttpContext
[JScript] protected function get Context() : HttpContext;
```

Description

Gets the **System.Web.HttpContext** object associated with the server control for the current Web request.

This property gives you access to the **Context** object for the current Web request. The object provides properties that access the **Application** , **Session** , **Request** , **Response** , and other objects that contain information about the current HTTP request. It also provides methods that allow you to obtain configuration information and set or clear errors for the request.

Controls

ToString

```
[C#] public virtual ControlCollection Controls {get;}
[C++] public: __property virtual ControlCollection* get_Controls();
[VB] Overridable Public ReadOnly Property Controls As ControlCollection
[JScript] public function get Controls() : ControlCollection;
```

Description

Gets a **System.Web.UI.ControlCollection** object that represents the child controls for a specified server control in the UI hierarchy.

On an ASP.NET page, when controls are added declaratively between the opening and closing tags of a server control, ASP.NET automatically adds the controls to the containing server control's **System.Web.UI.ControlCollection** . Any HTML tags or text strings that are not processed on the server are compiled into **System.Web.UI.LiteralControl** objects. These are added to the collection like other server controls.

EnableViewState

ToString

[C#] public virtual bool EnableViewState {get; set;}
[C++] public: __property virtual bool get_EnableViewState();public: __property virtual void set_EnableViewState(bool);
[VB] Overridable Public Property EnableViewState As Boolean
[JScript] public function get EnableViewState() : Boolean;public function set EnableViewState(Boolean);

Description

Gets or sets a value indicating whether the server control maintains its view state, and the view state of any child controls it contains, when the current page request ends.

You must enable view state for the server control to maintain its state across HTTP requests.

Events

ToString

[C#] protected EventHandlerList Events {get;}
[C++] protected: __property EventHandlerList* get_Events();
[VB] Protected ReadOnly Property Events As EventHandlerList
[JScript] protected function get Events() : EventHandlerList;

Description

Gets a list of event handler delegates for the control. This property is read-only.

This property is of type **System.ComponentModel.EventHandlerList** , which uses a linear search algorithm to find entries in the list of delegates. A linear search algorithm is inefficient when working with a large number of entries. Therefore, when you have a large list, finding entries with this property will be slow.

HasChildViewState

ToString

[C#] protected bool HasChildViewState {get;}
[C++] protected: __property bool get_HasChildViewState();
[VB] Protected ReadOnly Property HasChildViewState As Boolean
[JScript] protected function get HasChildViewState() : Boolean;

Description

Gets a value indicating whether the current server control's child controls have any saved view-state settings.

You can avoid unnecessary calls to the **System.Web.UI.Control.ClearChildViewState** method by using this property to verify that any child controls of the server control are storing view-state information.

ID

ToString

[C#] public virtual string ID {get; set;}
[C++] public: __property virtual String* get_ID();public: __property virtual void set_ID(String*);
[VB] Overridable Public Property ID As String
[JScript] public function get ID() : String;public function set ID(String);

Description

Gets or sets the programmatic identifier assigned to the server control.

Setting this property on a server control provides you with programmatic access to the server control's properties, events, and methods. This property can be set by Web developers by declaring an **id** attribute in the opening tag of an ASP.NET server control.

IsTrackingViewState

ToString

[C#] protected bool IsTrackingViewState {get;}

[C++] protected: __property bool get_IsTrackingViewState();

[VB] Protected ReadOnly Property IsTrackingViewState As Boolean

[JScript] protected function get IsTrackingViewState() : Boolean;

Description

Gets a value that indicates whether ther server control is saving changes to its view state.

For a sample custom server control that uses this property, see .

NamingContainer

ToString

[C#] public virtual Control NamingContainer {get;}

[C++] public: __property virtual Control* get_NamingContainer();

[VB] Overridable Public ReadOnly Property NamingContainer As Control

[JScript] public function get NamingContainer() : Control;

Description

Gets a reference to the server control's naming container, which creates a unique namespace for differentiating between server controls with the same **System.Web.UI.Control.ID** property value.

Each page in an ASP.NET Web application contains a hierarchy of controls. This hierarchy is not dependent on whether a control generates UI visible to the user. The naming container for a given control is the parent control above it in the hierarchy that implements the **INamingContainer** interface. A server control that implements this interface creates a unique namespace for the **ID** property values of its child server controls.

Page

ToString

[C#] public virtual Page Page {get; set;}

[C++] public: __property virtual Page* get_Page();public: __property virtual void set_Page(Page*);

[VB] Overridable Public Property Page As Page

[JScript] public function get Page() : Page;public function set Page(Page);

Description

Gets a reference to the **System.Web.UI.Page** instance that contains the server control.

This property reflects the name of the .aspx file associated with the current Web request. In the control hierarchy, name of the page is _PAGE by default. It is assigned to a type defined by the name of the .aspx file.

Parent

ToString

[C#] public virtual Control Parent {get;}

[C++] public: __property virtual Control* get_Parent();

[VB] Overridable Public ReadOnly Property Parent As Control

[JScript] public function get Parent() : Control;

Description

Gets a reference to the server control's parent control in the page UI hierarchy.

Whenever a page is requested, a hierarchy of server controls on that page is built. This property allows you to determine the parent control of the current server control in that hierarchy, and to program against it.

Site

ToString

[C#] public ISite Site {get; set;}

[C++] public: __property ISite* get_Site();public: __property void set_Site(ISite*);

[VB] Public Property Site As ISite

[JScript] public function get Site() : ISite;public function set Site(ISite);

Description

Gets information about the Web site to which the server control belongs.

Sites bind a **Component** to a **Container** and enable communication between them. They also provide a way for the container to manage its components.

TemplateSourceDirectory

ToString

[C#] public virtual string TemplateSourceDirectory {get;}

[C++] public: __property virtual String* get_TemplateSourceDirectory();
[VB] Overridable Public ReadOnly Property TemplateSourceDirectory As String
[JScript] public function get TemplateSourceDirectory() : String;

Description

Gets the virtual directory of the **System.Web.UI.Page** or **System.Web.UI.UserControl** that contains the current server control.

UniqueID

ToString

[C#] public virtual string UniqueID {get;}
[C++] public: __property virtual String* get_UniqueID();
[VB] Overridable Public ReadOnly Property UniqueID As String
[JScript] public function get UniqueID() : String;

Description

Gets the unique, hierarchically-qualified identifier for the server control.

This property differs from the **ID** property, in that the **UniqueID** property includes the identifier for the server control's naming container. This identifier is generated automatically when a page request is processed.

ViewState

ToString

[C#] protected virtual StateBag ViewState {get;}
[C++] protected: __property virtual StateBag* get_ViewState();

[VB] Overridable Protected ReadOnly Property ViewState As StateBag
[JScript] protected function get ViewState() : StateBag;

Description

Gets a dictionary of state information that allows you to save and restore the view state of a server control across multiple requests for the same page.

A server control's view state is the accumulation of all its property values. In order to preserve these values across HTTP requests, ASP.NET server controls use this property, which is an instance of the **StateBag** class, to store the property values. The values are then passed as a variable to a hidden field when subsequent requests are processed. For more information about view state, see . For more information about saving server control view state, see .

ViewStateIgnoresCase

ToString

[C#] protected virtual bool ViewStateIgnoresCase {get;}
[C++] protected: __property virtual bool get_ViewStateIgnoresCase();
[VB] Overridable Protected ReadOnly Property ViewStateIgnoresCase As Boolean
[JScript] protected function get ViewStateIgnoresCase() : Boolean;

Description

Gets a value that indicates whether the **System.Web.UI.StateBag** object is case-insensitive.

Visible

ToString

[C#] public virtual bool Visible {get; set;}
[C++] public: __property virtual bool get_Visible();public: __property virtual void set_Visible(bool);
[VB] Overridable Public Property Visible As Boolean
[JScript] public function get Visible() : Boolean;public function set Visible(Boolean);

Description

Gets or sets a value that indicates whether a server control is rendered as UI on the page.

Server controls that are not visible take up no space on a Web Forms page when it is displayed.

ToString

[C#] public event EventHandler DataBinding;
[C++] public: __event EventHandler* DataBinding;
[VB] Public Event DataBinding As EventHandler

Description

Occurs when the server control binds to a data source.

This event notifies the server control to perform any data binding logic that has been written for it.

ToString

```
[C#] public event EventHandler Disposed;
[C++] public: __sealed __event EventHandler* Disposed;
[VB] NotOverridable Public Event Disposed As EventHandler
```

Description

Occurs when a server control is released from memory, which is the last stage of the server control lifecycle when an ASP.NET page is requested.

Resources that require significant processor time, such as database connections, should be released with this event.

ToString

```
[C#] public event EventHandler Init;
[C++] public: __event EventHandler* Init;
[VB] Public Event Init As EventHandler
```

Description

Occurs when the server control is initialized, which is the first step in the its lifecycle.

Server controls should perform any initialization steps that are required to create and set up an instance. You cannot use view-state information within this event; it is not populated yet. You should not access another server control during this event, regardless of whether it is a child or parent to this control. Other server controls are not certain to be created and ready for access.

ToString

[C#] public event EventHandler Load;
[C++] public: __event EventHandler* Load;
[VB] Public Event Load As EventHandler

Description

Occurs when the server control is loaded into the **System.Web.UI.Page** object.

Notifies the server control to perform any processing steps that are set to occur on each page request. You can use view state information with this event. You can also access other server controls within the page's control hierarchy.

ToString

[C#] public event EventHandler PreRender;
[C++] public: __event EventHandler* PreRender;
[VB] Public Event PreRender As EventHandler

Description

Occurs when the server control is about to render to its containing **System.Web.UI.Page** object.

Use this event to perform any updates before the output the server control is rendered to the page. Any changes in the view state of the server control can be saved during this event. Such changes made in the rendering phase will not be saved.

ToString

[C#] public event EventHandler Unload;
[C++] public: __event EventHandler* Unload;
[VB] Public Event Unload As EventHandler

Description

Occurs when the server control is unloaded from memory.

Server controls must perform any final clean-up, such as closing files, database connections and discarding objects, during this stage of the control lifecycle before the instance is unloaded.

AddedControl

[C#] protected internal virtual void AddedControl(Control control, int index);
[C++] protected public: virtual void AddedControl(Control* control, int index);
[VB] Overridable Protected Friend Dim Sub AddedControl(ByVal control As Control, ByVal index As Integer)
[JScript] package function AddedControl(control : Control, index : int);

Description

AddParsedSubObject

[C#] protected virtual void AddParsedSubObject(object obj);
[C++] protected: virtual void AddParsedSubObject(Object* obj);
[VB] Overridable Protected Sub AddParsedSubObject(ByVal obj As Object)
[JScript] protected function AddParsedSubObject(obj : Object);

Description

Notifies the server control that an element, either XML or HTML, was parsed, and adds the element to the server control's **System.Web.UI.ControlCollection** object.

Unless you override it, this method automatically adds **System.Web.UI.LiteralControl** objects to the server control's **ControlCollection** object. This collection is accessible through **System.Web.UI.Control.Controls** property. An **System.Object** that represents the parsed element.

BuildProfileTree

[C#] protected void BuildProfileTree(string parentId, bool calcViewState);
[C++] protected: void BuildProfileTree(String* parentId, bool calcViewState);
[VB] Protected Sub BuildProfileTree(ByVal parentId As String, ByVal calcViewState As Boolean)
[JScript] protected function BuildProfileTree(parentId : String, calcViewState : Boolean);

Description

Gathers information about the server control and delivers it to the **System.Web.UI.Page.Trace** property to be displayed when tracing is enabled for the page.

This property gathers the information necessary about a page's UI hierarchy and passes it to the page's **Trace** property. When you enable tracing, either for a page or for your application, this information is displayed in the **Control Tree** section of the trace output. Trace output for a page is appended to the end of the page; while trace output for an application can be viewed from the trace viewer (trace.axd file) which is stored in the application's root directory. For more information about tracing, see . The identifier of the control's parent. A Boolean that indicates whether the view-state size is calculated.

ClearChildViewState

```
[C#]         protected      void        ClearChildViewState();
[C++]        protected:     void        ClearChildViewState();
[VB]         Protected      Sub         ClearChildViewState()
[JScript]    protected      function    ClearChildViewState();
```

Description

Deletes the view-state information for all of the server control's child controls.

This method is commonly used when you override the **System.Web.UI.Control.DataBind** method when developing templated data-bound server controls. If you do not call this method, child control view-state information can be written to a parent server control, only to be overridden when data binding occurs.

CreateChildControls

```
[C#]     protected      virtual      void     CreateChildControls();
[C++]    protected:     virtual      void     CreateChildControls();
[VB]     Overridable    Protected    Sub      CreateChildControls()
```

[JScript] protected function CreateChildControls();

Description

Notifies server controls that use composition-based implementation to create any child controls they contain in preparation for posting back or rendering.

When you develop a composite or templated server control, you must override this method. For more information, see and .

CreateControlCollection

[C#] protected virtual ControlCollection CreateControlCollection();

[C++] protected: virtual ControlCollection* CreateControlCollection();

[VB] Overridable Protected Function CreateControlCollection() As ControlCollection

[JScript] protected function CreateControlCollection() : ControlCollection;

Description

Creates a new **System.Web.UI.ControlCollection** object to hold the child controls (both literal and server) of the server control. *Return Value:* A **ControlCollection** object that contains the current server control's child server controls.

DataBind

[C#] public virtual void DataBind();

[C++] public: virtual void DataBind();

[VB] Overridable Public Sub DataBind()

```
[JScript]         public          function          DataBind();
```

Description

Binds a data source to the invoked server control and all of its child controls.

Use this method to bind data from a source to a server control. This method is commonly used after retrieving a data set through a database query.

Dispose

```
[C#]        public         virtual      void      Dispose();
[C++]       public:        virtual      void      Dispose();
[VB]        Overridable    Public       Sub       Dispose()
[JScript]          public          function          Dispose();
```

Description

Enables a server control to perform final clean up before it is released from memory.

Call **Dispose** when you are finished using the **System.Web.UI.Control** . The **Dispose** method leaves the **Control** in an unusable state. After calling this method, you must release all references to the control so the memory it was occupying can be reclaimed by garbage collection.

EnsureChildControls

```
[C#]       protected     virtual     void     EnsureChildControls();
[C++]      protected:    virtual     void     EnsureChildControls();
```

[VB] Overridable Protected Sub EnsureChildControls()
[JScript] protected function EnsureChildControls();

Description

Checks if the server control contains child controls. If it does not, it creates child controls.

If the server control contains nothing but literal content or HTML that is parsed and compiled as a **System.Web.UI.LiteralControl** object, it adds that object to the server control's **System.Web.UI.ControlCollection** object. The instance of the **LiteralControl** then becomes a child of the server control.

FindControl

[C#] public virtual Control FindControl(string id);
[C++] public: virtual Control* FindControl(String* id);
[VB] Overridable Public Function FindControl(ByVal id As String) As Control
[JScript] public function FindControl(id : String) : Control; Searches the current naming container for the specified server control.

Description

Searches the current naming container for a server control with the specified *id* parameter.

Return Value: The specified control, or 0 if the specified control does not exist. The identifier for the control to be found.

FindControl

[C#] protected virtual Control FindControl(string id, int pathOffset);

[C++] protected: virtual Control* FindControl(String* id, int pathOffset);

[VB] Overridable Protected Function FindControl(ByVal id As String, ByVal pathOffset As Integer) As Control

[JScript] protected function FindControl(id : String, pathOffset : int) : Control;

Description

Searches the current naming container for a server control with the specified *id* and an integer, specified in the *pathOffset* parameter, that aids in the search.

Return Value: The specified control, or 0 if the specified control does not exist. The identifier for the control to be found. The number of controls up the page control hierarchy needed to reach a naming container.

HasControls

[C#] public virtual bool HasControls();

[C++] public: virtual bool HasControls();

[VB] Overridable Public Function HasControls() As Boolean

[JScript] public function HasControls() : Boolean;

Description

Determines if the server control contains any child controls. *Return Value:* **true** if the control contains other controls; otherwise, **false** .

Since this method simply determines if any child controls exist, it can enhance performance by allowing you to avoid an unnecessary call to the **Count** property on the server control's **System.Web.UI.ControlCollection** object. The **ControlCollection** is available on the control through the **System.Web.UI.Control.Controls** property.

IsLiteralContent

[C#] protected bool IsLiteralContent();
[C++] protected: bool IsLiteralContent();
[VB] Protected Function IsLiteralContent() As Boolean
[JScript] protected function IsLiteralContent() : Boolean;

Description

Determines if the server control holds only literal content. *Return Value:* **true** if the server control is comprised of literal content; otherwise **false** .

When this method returns **true** , the server control's collection holds a single literal control. The content is then passed to the requesting browser as HTML.

LoadViewState

[C#] protected virtual void LoadViewState(object savedState);
[C++] protected: virtual void LoadViewState(Object* savedState);
[VB] Overridable Protected Sub LoadViewState(ByVal savedState As Object)
[JScript] protected function LoadViewState(savedState : Object);

Description

Restores view-state information from a previous page request that was saved by the **System.Web.UI.Control.SaveViewState** method.

Override this method when you need to customize how a custom server control restores its view state. For more information, see . An **System.Object** that represents the control state to be restored.

MapPathSecure

```
[C#] protected string MapPathSecure(string virtualPath);
[C++] protected: String* MapPathSecure(String* virtualPath);
[VB] Protected Function MapPathSecure(ByVal virtualPath As String) As String
[JScript] protected function MapPathSecure(virtualPath : String) : String;
```

Description

Retrieves a mapped physical file path relative to the source file, if the requesting server control has sufficient security permissions to read the mapped result.

Return Value: The physical path to the requested file.

This method can only be used by server controls that have permissions to read files and which are part of fully trusted .dll files, such as System.Web.dll. This helps prevent security breaches. A relative or root relative URL.

OnBubbleEvent

```
[C#] protected virtual bool OnBubbleEvent(object source, EventArgs args);
```

[C++] protected: virtual bool OnBubbleEvent(Object* source, EventArgs* args);
[VB] Overridable Protected Function OnBubbleEvent(ByVal source As Object, ByVal args As EventArgs) As Boolean
[JScript] protected function OnBubbleEvent(source : Object, args : EventArgs) : Boolean;

Description

Determines whether the event for the server control is passed up the page's UI server control hierarchy.
Return Value: **true** if the event has been cancelled; otherwise, **false** . The default is **false** .

ASP.NET server controls such as the **System.Web.UI.WebControls.Repeater** , **System.Web.UI.WebControls.DataList** and **System.Web.UI.WebControls.DataGrid** Web controls can contain child controls that raise events. For example, each row in a **DataGrid** control can contain one or more buttons created dynamically by templates. The source of the event. An **System.EventArgs** object that contains the event data.

OnDataBinding

[C#] protected virtual void OnDataBinding(EventArgs e);
[C++] protected: virtual void OnDataBinding(EventArgs* e);
[VB] Overridable Protected Sub OnDataBinding(ByVal e As EventArgs)
[JScript] protected function OnDataBinding(e : EventArgs);

Description

Raises the **DataBinding** event.

This method notifies a server control to perform any data binding logic that is associated with it. An **EventArgs** object that contains the event data.

OnInit

[C#] protected virtual void OnInit(EventArgs e);

[C++] protected: virtual void OnInit(EventArgs* e);

[VB] Overridable Protected Sub OnInit(ByVal e As EventArgs)

[JScript] protected function OnInit(e : EventArgs);

Description

Raises the **Init** event.

When notified by this method, server controls must perform any initialization steps that are required to create and set up an instance. In this stage of the server control's lifecycle, the control's view state has yet to be populated. Additionally, you can not access other server controls when this method is called either, regardless of whether it is a child or parent to this control. Other server controls are not certain to be created and ready for access. An **System.EventArgs** object that contains the event data.

OnLoad

[C#] protected virtual void OnLoad(EventArgs e);

[C++] protected: virtual void OnLoad(EventArgs* e);

[VB] Overridable Protected Sub OnLoad(ByVal e As EventArgs)
[JScript] protected function OnLoad(e : EventArgs);

Description

Raises the **Load** event.

This method notifies the server control that it should perform actions common to each HTTP request for the page it is associated with, such as setting up a database query. At this stage in the page lifecycle, server controls in the hierarchy are created and initialized, view state is restored, and form controls reflect client-side data. The **System.EventArgs** object that contains the event data.

OnPreRender

[C#] protected virtual void OnPreRender(EventArgs e);
[C++] protected: virtual void OnPreRender(EventArgs* e);
[VB] Overridable Protected Sub OnPreRender(ByVal e As EventArgs)
[JScript] protected function OnPreRender(e : EventArgs);

Description

Raises the **System.Web.UI.Control.PreRender** event, which notifies the server control that

This method notifies the server control to perform any necessary prerendering steps prior to saving view state and rendering content. An **System.EventArgs** object that contains the event data.

OnUnload

[C#] protected virtual void OnUnload(EventArgs e);
[C++] protected: virtual void OnUnload(EventArgs* e);
[VB] Overridable Protected Sub OnUnload(ByVal e As EventArgs)
[JScript] protected function OnUnload(e : EventArgs);

Description

Raises the **Unload** event. An **System.EventArgs** object that contains event data.

RaiseBubbleEvent

[C#] protected void RaiseBubbleEvent(object source, EventArgs args);
[C++] protected: void RaiseBubbleEvent(Object* source, EventArgs* args);
[VB] Protected Sub RaiseBubbleEvent(ByVal source As Object, ByVal args As EventArgs)
[JScript] protected function RaiseBubbleEvent(source : Object, args : EventArgs);

Description

Assigns any sources of the event and its information to the control's parent.

ASP.NET server controls such as the **System.Web.UI.WebControls.Repeater** , **System.Web.UI.WebControls.DataList** and **System.Web.UI.WebControls.DataGrid** Web controls can contain child controls that raise events. For example, each row in a **DataGrid** control can contain one or more buttons created dynamically by templates. The source of the event. An **System.EventArgs** object that contains the event data.

RemovedControl

[C#] protected internal virtual void RemovedControl(Control control);
[C++] protected public: virtual void RemovedControl(Control* control);
[VB] Overridable Protected Friend Dim Sub RemovedControl(ByVal control As Control)
[JScript] package function RemovedControl(control : Control);

Description

Render

[C#] protected virtual void Render(HtmlTextWriter writer);
[C++] protected: virtual void Render(HtmlTextWriter* writer);
[VB] Overridable Protected Sub Render(ByVal writer As HtmlTextWriter)
[JScript] protected function Render(writer : HtmlTextWriter);

Description

Sends server control content to a provided **System.Web.UI.HtmlTextWriter** object, which writes the content to be rendered on the client.

When developing custom server controls, you can override this method to generate content for an ASP.NET page. For more information, see . The **HtmlTextWriter** object that receives the server control content.

RenderChildren

[C#] protected virtual void RenderChildren(HtmlTextWriter writer);
[C++] protected: virtual void RenderChildren(HtmlTextWriter* writer);
[VB] Overridable Protected Sub RenderChildren(ByVal writer As HtmlTextWriter)
[JScript] protected function RenderChildren(writer : HtmlTextWriter);

Description

Outputs the content of a server control's children to a provided **System.Web.UI.HtmlTextWriter** object, which writes the content to be rendered on the client.

This method uses the delegate specified in the **System.Web.UI.Control.SetRenderMethodDelegate(System.Web.UI.Render Method)** method to render any Active Server Pages (ASP) code on the page. If no ASP code exists on the page, this method renders any child controls for the server control. The **HtmlTextWriter** object that receives the child controls.

RenderControl

[C#] public void RenderControl(HtmlTextWriter writer);
[C++] public: void RenderControl(HtmlTextWriter* writer);
[VB] Public Sub RenderControl(ByVal writer As HtmlTextWriter)
[JScript] public function RenderControl(writer : HtmlTextWriter);

Description

Outputs server control content to a provided **System.Web.UI.HtmlTextWriter** object, then checks if tracing is enabled for the containing page and retrieves trace information about the server control.

If a server control's **System.Web.UI.Control.Visible** property is set to **true** , this method checks to see if tracing is enabled for the page, and renders the server control content to the page. The **HtmlTextWriter** object that receives the control content.

ResolveUrl

```
[C#] public string ResolveUrl(string relativeUrl);
[C++] public: String* ResolveUrl(String* relativeUrl);
[VB] Public Function ResolveUrl(ByVal relativeUrl As String) As String
[JScript] public function ResolveUrl(relativeUrl : String) : String;
```

Description

Resolves a relative URL to the absolute URL where the page or user control associated with this request resides. *Return Value:* The absolute URL.

This method uses the **System.Web.UI.Control.TemplateSourceDirectory** property to resolve to the absolute URL. The returned URL is for client use, and contains the session cookie if appropriate. The relative URL associated with the HTTP request.

SaveViewState

```
[C#] protected virtual object SaveViewState();
```

[C++] protected: virtual Object* SaveViewState();

[VB] Overridable Protected Function SaveViewState() As Object

[JScript] protected function SaveViewState() : Object;

Description

Saves any server control view-state changes that have occurred since the time the page was posted back to the server. *Return Value:* Returns the server control's current view state. If there is no view state associated with the control, this method returns **null** .

View state is the accumulation of the values of a server control's properties. These values are automatically placed in the server control's **System.Web.UI.Control.ViewState** property, which is an instance of the **System.Web.UI.StateBag** class. This property's value is then persisted to a string object after the save state stage of the server control life cycle. For more information, see .

SetRenderMethodDelegate

[C#] public void SetRenderMethodDelegate(RenderMethod renderMethod);

[C++] public: void SetRenderMethodDelegate(RenderMethod* renderMethod);

[VB] Public Sub SetRenderMethodDelegate(ByVal renderMethod As RenderMethod)

[JScript] public function SetRenderMethodDelegate(renderMethod : RenderMethod);

Description

Assigns an event handler delegate to render the server control and its content into its parent control.

This method is supplied for implementation purposes only; you should never call it directly. The information necessary to pass to the delegate so that it can render the server control.

IParserAccessor.AddParsedSubObject

[C#] void IParserAccessor.AddParsedSubObject(object obj);
[C++] void IParserAccessor::AddParsedSubObject(Object* obj);
[VB] Sub AddParsedSubObject(ByVal obj As Object) Implements IParserAccessor.AddParsedSubObject
[JScript] function IParserAccessor.AddParsedSubObject(obj : Object);

TrackViewState

[C#] protected virtual void TrackViewState();
[C++] protected: virtual void TrackViewState();
[VB] Overridable Protected Sub TrackViewState()
[JScript] protected function TrackViewState();

Description

Causes tracking of view-state changes to the server control so they can be stored in the server control's **System.Web.UI.StateBag** object. This object is accessible through the **System.Web.UI.Control.ViewState** property.

Invoke this method when you develop templated data-bound controls. This method alerts ASP.NET to monitor changes to a server control's view state, which is required when you override the **System.Web.UI.Control.DataBind** method. For more information, see .

ControlBuilder class (System.Web.UI)

TrackViewState

Description

Supports the parser to build a control and the child controls it contains.

By default every control in a page is associated with a default ControlBuilder class. This class adds a child control to the Controls collection for every nested control that it encounters within custom control tags. Additionally, it adds literal controls for text between nested control tags. You can override this default behavior by defining your own custom control builder class. This is done by applying a control builder attribute to your control builder class as follows: [ControlBuilderAttribute(typeof(ControlBuilderType))]

ControlBuilder

Example Syntax:

TrackViewState

[C#] public ControlBuilder();

[C++] public: ControlBuilder();

[VB] Public Sub New()

[JScript] public function ControlBuilder();

ControlType

TrackViewState

[C#] public Type ControlType {get;}

[C++] public: __property Type* get_ControlType();

[VB] Public ReadOnly Property ControlType As Type

[JScript] public function get ControlType() : Type;

Description

Gets the type for the control to be created. This can be a class type, an interface type, a value type and so on.

FChildrenAsProperties

TrackViewState

[C#] protected bool FChildrenAsProperties {get;}

[C++] protected: __property bool get_FChildrenAsProperties();

[VB] Protected ReadOnly Property FChildrenAsProperties As Boolean

[JScript] protected function get FChildrenAsProperties() : Boolean;

Description

Checks if there are children controls to be parsed.

true if there are children controls to be parsed, **false** otherwise.

FIsNonParserAccessor

TrackViewState

[C#] protected bool FIsNonParserAccessor {get;}

[C++] protected: __property bool get_FIsNonParserAccessor();

```
[VB] Protected ReadOnly Property FIsNonParserAccessor As Boolean
[JScript] protected function get FIsNonParserAccessor() : Boolean;
```

Description

Checks if the control implements the **System.Web.UI.IParseAccessor** interface.

This is a read only property. It is **true** if the controls implements the **System.Web.UI.IParseAccessor** interface, otherwise it returns **false** .

HasAspCode

TrackViewState

```
[C#] public bool HasAspCode {get;}
[C++] public: __property bool get_HasAspCode();
[VB] Public ReadOnly Property HasAspCode As Boolean
[JScript] public function get HasAspCode() : Boolean;
```

Description

Gets a value indicating whether the control contains any Active Server Pages (ASP) code.

ID

TrackViewState

```
[C#] public string ID {get; set;}
[C++] public: __property String* get_ID();public: __property void set_ID(String*);
```

```
[VB] Public Property ID As String
[JScript] public function get ID() : String;public function set ID(String);
```

Description

Gets or sets the ID property for the control to be built.

InDesigner

TrackViewState

```
[C#] protected bool InDesigner {get;}
[C++] protected: __property bool get_InDesigner();
[VB] Protected ReadOnly Property InDesigner As Boolean
[JScript] protected function get InDesigner() : Boolean;
```

Description

Allows to change the behavior of control builders.

NamingContainerType

TrackViewState

```
[C#] public Type NamingContainerType {get;}
[C++] public: __property Type* get_NamingContainerType();
[VB] Public ReadOnly Property NamingContainerType As Type
[JScript] public function get NamingContainerType() : Type;
```

Description

Gets the type assigned to the control's naming container.

Parser

TrackViewState

```
[C#] protected TemplateParser Parser {get;}
[C++] protected: __property TemplateParser* get_Parser();
[VB] Protected ReadOnly Property Parser As TemplateParser
[JScript] protected function get Parser() : TemplateParser;
```

Description

Gets the control builder parser.

TagName

TrackViewState

```
[C#] public string TagName {get;}
[C++] public: __property String* get_TagName();
[VB] Public ReadOnly Property TagName As String
[JScript] public function get TagName() : String;
```

Description

Gets the tag name for the control to be built.

AllowWhitespaceLiterals

```
[C#] public virtual bool AllowWhitespaceLiterals();
[C++] public: virtual bool AllowWhitespaceLiterals();
[VB] Overridable Public Function AllowWhitespaceLiterals() As Boolean
```

```
[JScript] public function AllowWhitespaceLiterals() : Boolean;
```

Description

Allows spaces within a control to be created as a LiteralControl object. If you create a custom control builder, you can override this method *Return Value:* **true** in all cases.

AppendLiteralString

```
[C#] public virtual void AppendLiteralString(string s);
[C++] public: virtual void AppendLiteralString(String* s);
[VB] Overridable Public Sub AppendLiteralString(ByVal s As String)
[JScript] public function AppendLiteralString(s : String);
```

Description

Adds literal content to a control. Literal content is any text that is passed through to the browser without being processed on the server. For example, any HTML elements and text between their opening and closing tags are literal content. The content to add to the control.

AppendSubBuilder

```
[C#] public virtual void AppendSubBuilder(ControlBuilder subBuilder);
[C++] public: virtual void AppendSubBuilder(ControlBuilder* subBuilder);
[VB] Overridable Public Sub AppendSubBuilder(ByVal subBuilder As
ControlBuilder)
[JScript] public function AppendSubBuilder(subBuilder : ControlBuilder);
```

Description

Adds builders to the **System.Web.UI.ControlBuilder** object for any child controls that belong to the control. The **ControlBuilder** object assigned to the child control.

CloseControl

[C#] public virtual void CloseControl();
[C++] public: virtual void CloseControl();
[VB] Overridable Public Sub CloseControl()
[JScript] public function CloseControl();

Description

Inserts the closing tag for the control.

CreateBuilderFromType

[C#] public static ControlBuilder CreateBuilderFromType(TemplateParser parser, ControlBuilder parentBuilder, Type type, string tagName, string id, IDictionary attribs, int line, string sourceFileName);
[C++] public: static ControlBuilder* CreateBuilderFromType(TemplateParser* parser, ControlBuilder* parentBuilder, Type* type, String* tagName, String* id, IDictionary* attribs, int line, String* sourceFileName);
[VB] Public Shared Function CreateBuilderFromType(ByVal parser As TemplateParser, ByVal parentBuilder As ControlBuilder, ByVal type As Type, ByVal tagName As String, ByVal id As String, ByVal attribs As IDictionary,

ByVal line As Integer, ByVal sourceFileName As String) As ControlBuilder
[JScript] public static function CreateBuilderFromType(parser : TemplateParser, parentBuilder : ControlBuilder, type : Type, tagName : String, id : String, attribs : IDictionary, line : int, sourceFileName : String) : ControlBuilder;

Description

Creates a **System.Web.UI.ControlBuilder** object for the specified tag. *Return Value:* The builder that is responsible for creating the control. The **System.Web.UI.TemplateParser** object responsible for parsing the control. The **System.Web.UI.ControlBuilder** object responsible for building the control. The type assigned to the control that the builder will create. The name of the tag to be built. This allows the builder to support multiple tag types. The ID attribute assigned to the control. The **System.Collections.IDictionary** object that holds all of the specified tags attributes. The source file line number for the specified control. The name of the source file from which the control is to be created.

` GetChildControlType

[C#] public virtual Type GetChildControlType(string tagName, IDictionary attribs);
[C++] public: virtual Type* GetChildControlType(String* tagName, IDictionary* attribs);
[VB] Overridable Public Function GetChildControlType(ByVal tagName As String, ByVal attribs As IDictionary) As Type
[JScript] public function GetChildControlType(tagName : String, attribs : IDictionary) : Type;

Description

Obtains the Type for the current control's children. *Return Value:* If a default property exists, this method returns the default property builder. If the type is a collection, a collection builder; if the type is a template, a template builder. If none of the above, this method returns the type of the property, or **null** if there are no properties. The name of the current control's tag. An array of attributes contained in the current control.

HasBody

[C#] public virtual bool HasBody();

[C++] public: virtual bool HasBody();

[VB] Overridable Public Function HasBody() As Boolean

[JScript] public function HasBody() : Boolean;

Description

Determines if a control has both an opening and closing tag. *Return Value:* **true** if the control has an opening and closing tag; otherwise, **false** .

HtmlDecodeLiterals

[C#] public virtual bool HtmlDecodeLiterals();

[C++] public: virtual bool HtmlDecodeLiterals();

[VB] Overridable Public Function HtmlDecodeLiterals() As Boolean

[JScript] public function HtmlDecodeLiterals() : Boolean;

Description

Checks if the literal string of an HTML control must be decoded. *Return Value:* **true** if the HTML control literal string is to be decoded, **false** otherwise.

Init

[C#] public virtual void Init(TemplateParser parser, ControlBuilder parentBuilder, Type type, string tagName, string id, IDictionary attribs);
[C++] public: virtual void Init(TemplateParser* parser, ControlBuilder* parentBuilder, Type* type, String* tagName, String* id, IDictionary* attribs);
[VB] Overridable Public Sub Init(ByVal parser As TemplateParser, ByVal parentBuilder As ControlBuilder, ByVal type As Type, ByVal tagName As String, ByVal id As String, ByVal attribs As IDictionary)
[JScript] public function Init(parser : TemplateParser, parentBuilder : ControlBuilder, type : Type, tagName : String, id : String, attribs : IDictionary);

Description

Initializes the control builder when a Web request is made. The **System.Web.UI.TemplateParser** object responsible for parsing the control. The **System.Web.UI.ControlBuilder** object responsible for building the control. The type assigned to the control that the builder will create. The name of the tag to be built. This allows the builder to support multiple tag types. The ID attribute assigned to the control. The **System.Collections.IDictionary** object that holds all of the specified tags attributes.

NeedsTagInnerText

[C#] public virtual bool NeedsTagInnerText();
[C++] public: virtual bool NeedsTagInnerText();
[VB] Overridable Public Function NeedsTagInnerText() As Boolean
[JScript] public function NeedsTagInnerText() : Boolean;

Description

Determines if a control tag needs inner text. If so, the **System.Web.UI.ControlBuilder.SetTagInnerText(System.String)** method must be called.

Return Value: **true** if the control tag does not have any inner text; otherwise, **false** . The default is **false** .

OnAppendToParentBuilder

[C#] public virtual void OnAppendToParentBuilder(ControlBuilder parentBuilder);
[C++] public: virtual void OnAppendToParentBuilder(ControlBuilder* parentBuilder);
[VB] Overridable Public Sub OnAppendToParentBuilder(ByVal parentBuilder As ControlBuilder)
[JScript] public function OnAppendToParentBuilder(parentBuilder : ControlBuilder);

Description

Notifies the current control builder that it is being added to a parent control builder. The ControlBuilder object to which the current builder is added.

SetTagInnerText

```
[C#] public virtual void SetTagInnerText(string text);
[C++] public: virtual void SetTagInnerText(String* text);
[VB] Overridable Public Sub SetTagInnerText(ByVal text As String)
[JScript] public function SetTagInnerText(text : String);
```

Description

Provides the builder with the inner text of the control tag. The text to be provided.

ControlBuilderAttribute class (System.Web.UI)

ToString

Description

Specifies a custom **System.Web.UI.ControlBuilder** object for building a control within the ASP.NET parser. This class cannot be inherited.

This attribute prefixes the class to be used by the control builder at to create a custom control at run time.

ToString

```
[C#] public static readonly ControlBuilderAttribute Default;
[C++] public: static ControlBuilderAttribute* Default;
```

```
[VB] Public Shared ReadOnly Default As ControlBuilderAttribute
[JScript] public static var Default : ControlBuilderAttribute;
```

Description

Specifies the new **System.Web.UI.ControlBuilderAttribute** object. By default, the new object is set to null. This field is read-only.

ControlBuilderAttribute

Example Syntax:

ToString

```
[C#] public ControlBuilderAttribute(Type builderType);
[C++] public: ControlBuilderAttribute(Type* builderType);
[VB] Public Sub New(ByVal builderType As Type)
[JScript] public function ControlBuilderAttribute(builderType : Type);
```

Description

Specifies the control builder for a custom control.

The association of the control builder type with a custom control is obtained by preeceding the custom control builder class with the following attribute definition: [ControlBuilderAttribute(typeof(controlbuildertype))] control builder type

BuilderType

ToString

```
[C#] public Type BuilderType {get;}
```

```
[C++] public: __property Type* get_BuilderType();
[VB] Public ReadOnly Property BuilderType As Type
[JScript] public function get BuilderType() : Type;
```

Description

Gets the type assigned to the control. This property is read-only.

TypeId

Equals

```
[C#] public override bool Equals(object obj);
[C++] public: bool Equals(Object* obj);
[VB] Overrides Public Function Equals(ByVal obj As Object) As Boolean
[JScript] public override function Equals(obj : Object) : Boolean;
```

Description

Determines the control builder type for the specified control.

GetHashCode

```
[C#] public override int GetHashCode();
[C++] public: int GetHashCode();
[VB] Overrides Public Function GetHashCode() As Integer
[JScript] public override function GetHashCode() : int;
```

Description

Returns the hash code for the control object. *Return Value:* **int** representing the control object hash code

IsDefaultAttribute

[C#] public override bool IsDefaultAttribute();
[C++] public: bool IsDefaultAttribute();
[VB] Overrides Public Function IsDefaultAttribute() As Boolean
[JScript] public override function IsDefaultAttribute() : Boolean;

Description

Determines the current is the default control builder. *Return Value:* **true** if the current is the default control builder.

ControlCollection class (System.Web.UI)

ToString

Description

Provides a collection container that enables ASP.NET server controls to maintain a list of their child controls.

You can access any of the properties and methods of the **ControlCollection** class through the **System.Web.UI.Control.Controls** property. Since the **Control** class is the base class for all ASP.NET server controls, all server controls inherit this property.

ControlCollection

Example Syntax:

ToString

```
[C#] public ControlCollection(Control owner);
[C++] public: ControlCollection(Control* owner);
[VB] Public Sub New(ByVal owner As Control)
[JScript] public function ControlCollection(owner : Control);
```

Description

Initializes a new instance of the **System.Web.UI.ControlCollection** class for the parent server control specified in the *owner* parameter. The ASP.NET server control that the control collection is created for.

Count

ToString

```
[C#] public int Count {get;}
[C++] public: __property int get_Count();
[VB] Public ReadOnly Property Count As Integer
[JScript] public function get Count() : int;
```

Description

Gets the number of server controls in the **ControlCollection** object for the specified ASP.NET server control.

IsReadOnly

ToString

```
[C#] public bool IsReadOnly {get;}
[C++] public: __property bool get_IsReadOnly();
[VB] Public ReadOnly Property IsReadOnly As Boolean
[JScript] public function get IsReadOnly() : Boolean;
```

Description

Gets a value indicating whether the **ControlCollection** object is read-only.

IsSynchronized

ToString

```
[C#] public bool IsSynchronized {get;}
[C++] public: __property bool get_IsSynchronized();
[VB] Public ReadOnly Property IsSynchronized As Boolean
[JScript] public function get IsSynchronized() : Boolean;
```

Description

Gets a value indicating whether the **ControlCollection** is synchronized.

Item

ToString

```
[C#] public virtual Control this[int index] {get;}
[C++] public: __property virtual Control* get_Item(int index);
[VB] Overridable Public Default ReadOnly Property Item(ByVal index As
Integer) As Control
```

```
[JScript] returnValue = ControlCollectionObject.Item(index);
```

Description

Gets a reference to the server control at the specified index location in the **ControlCollection** object. The location of the server control in the **ControlCollection** .

Owner

ToString

```
[C#] protected Control Owner {get;}
[C++] protected: __property Control* get_Owner();
[VB] Protected ReadOnly Property Owner As Control
[JScript] protected function get Owner() : Control;
```

Description

Gets the ASP.NET server control to which the **System.Web.UI.ControlCollection** object belongs.

SyncRoot

ToString

```
[C#] public object SyncRoot {get;}
[C++] public: __property Object* get_SyncRoot();
[VB] Public ReadOnly Property SyncRoot As Object
[JScript] public function get SyncRoot() : Object;
```

Description

Gets an object that can be used to synchronize access to the collection of controls.

Add

```
[C#] public virtual void Add(Control child);
[C++] public: virtual void Add(Control* child);
[VB] Overridable Public Sub Add(ByVal child As Control)
[JScript] public function Add(child : Control);
```

Description

Adds the specified **System.Web.UI.Control** object to the collection.

The new control is added to the end of an ordinal index array. The control can be an instance of any ASP.NET server control, a custom server control you create, or a literal control. The **Control** object to add to the collection.

AddAt

```
[C#] public virtual void AddAt(int index, Control child);
[C++] public: virtual void AddAt(int index, Control* child);
[VB] Overridable Public Sub AddAt(ByVal index As Integer, ByVal child As Control)
[JScript] public function AddAt(index : int, child : Control);
```

Description

Adds the specified **System.Web.UI.Control** object to the collection at the specified index location.

The added control can be an instance of any ASP.NET server control, a custom server control you create, or a literal control. The location in the array to add the child control. The **Control** object to add to the collection.

Clear

```
[C#] public virtual void Clear();
[C++] public: virtual void Clear();
[VB] Overridable Public Sub Clear()
[JScript] public function Clear();
```

Description

Removes all controls from the current server control's **System.Web.UI.ControlCollection** object.

Use this method to empty a custom control's **ControlCollection** when you override the **System.Web.UI.Control.CreateChildControls** and **System.Web.UI.Control.DataBind** methods. Do this when you develop composite, templated controls or templated data bound controls. For more information, see .

Contains

```
[C#] public virtual bool Contains(Control c);
[C++] public: virtual bool Contains(Control* c);
[VB] Overridable Public Function Contains(ByVal c As Control) As Boolean
```

[JScript] public function Contains(c : Control) : Boolean;

Description

Determines whether the specified server control is in the parent server control's **System.Web.UI.ControlCollection** object. *Return Value:* **true** if the specified server control exists in the collection; otherwise, **false** . The server control to search for in the collection.

CopyTo

[C#] public void CopyTo(Array array, int index);
[C++] public: __sealed void CopyTo(Array* array, int index);
[VB] NotOverridable Public Sub CopyTo(ByVal array As Array, ByVal index As Integer)
[JScript] public function CopyTo(array : Array, index : int);

Description

Copies the child controls stored in the **System.Web.UI.ControlCollection** object to an **System.Array** object, beginning at the specified index location in the **Array** . The **Array** to copy the child controls to. The zero-based relative index in *array* where copying begins.

GetEnumerator

[C#] public IEnumerator GetEnumerator();
[C++] public: __sealed IEnumerator* GetEnumerator();
[VB] NotOverridable Public Function GetEnumerator() As IEnumerator

```
[JScript] public function GetEnumerator() : IEnumerator;
```

Description

Retrieves an enumerator that can iterate through the **ControlCollection** object.

Return Value: The enumerator to iterate through the collection.

IndexOf

```
[C#] public virtual int IndexOf(Control value);
[C++] public: virtual int IndexOf(Control* value);
[VB] Overridable Public Function IndexOf(ByVal value As Control) As Integer
[JScript] public function IndexOf(value : Control) : int;
```

Description

Retrieves the index of a specified **System.Web.UI.Control** object in the collection.

Return Value: The index of the specified server control. If the server control is not currently a member of the collection, it returns -1.

Use this method to determine the index location of the specified server control in the **ControlCollection** object. The **Control** object for which the index is returned.

Remove

```
[C#] public virtual void Remove(Control value);
[C++] public: virtual void Remove(Control* value);
```

```
[VB] Overridable Public Sub Remove(ByVal value As Control)
[JScript] public function Remove(value : Control);
```

Description

Removes the specified server control from the parent server control's **System.Web.UI.ControlCollection** object.

To remove a control from an index location, use the **System.Web.UI.ControlCollection.RemoveAt(System.Int32)** method. The server control to be removed.

RemoveAt

```
[C#] public virtual void RemoveAt(int index);
[C++] public: virtual void RemoveAt(int index);
[VB] Overridable Public Sub RemoveAt(ByVal index As Integer)
[JScript] public function RemoveAt(index : int);
```

Description

Removes a child control, at the specified index location, from the **System.Web.UI.ControlCollection** object.

To remove a control from the collection based on its value, use the **System.Web.UI.ControlCollection.Remove(System.Web.UI.Control)** method. The ordinal index of the server control to be removed from the collection.

CssStyleCollection class (System.Web.UI)

ToString

Description

Contains the HTML cascading-style sheets (CSS) inline style attributes for a specified HTML server control. This class cannot be inherited.

Any style declared for a particular HTML server control is added to the collection when the containing Web Forms page is parsed. It automatically parses and exposes CSS properties through a dictionary pattern API. You can manipulate any CSS property on a server control through the **System.Web.UI.HtmlControls.HtmlControl.Style** property. Simply use the CSS property's key and value in the indexed collection.

Count

ToString

```
[C#] public int Count {get;}
[C++] public: __property int get_Count();
[VB] Public ReadOnly Property Count As Integer
[JScript] public function get Count() : int;
```

Description

Gets the number of items in the **CssStyleCollection** object.

Item

ToString

```
[C#] public string this[string key] {get; set;}
```

```
[C++] public: __property String* get_Item(String* key);public: __property void
set_Item(String* key, String*);
[VB] Public Default Property Item(ByVal key As String) As String
[JScript] returnValue =
CssStyleCollectionObject.Item(key);CssStyleCollectionObject.Item(key) =
returnValue;
```

Description

Gets or sets a specified CSS value for the specified HTML server control. The index to the CSS attribute.

Keys

ToString

```
[C#] public ICollection Keys {get;}
[C++] public: __property ICollection* get_Keys();
[VB] Public ReadOnly Property Keys As ICollection
[JScript] public function get Keys() : ICollection;
```

Description

Gets a collection of keys to all the styles in the **CssStyleCollection** object for a specific HTML server control.

Add

```
[C#] public void Add(string key, string value);
[C++] public: void Add(String* key, String* value);
```

```
[VB] Public Sub Add(ByVal key As String, ByVal value As String)
[JScript] public function Add(key : String, value : String);
```

Description

Adds a style item to the **CssStyleCollection** object. The index assigned to the new style in the collection. The style to store in the collection.

Clear

```
[C#] public void Clear();
[C++] public: void Clear();
[VB] Public Sub Clear()
[JScript] public function Clear();
```

Description

Removes all style items from the **CssStyleCollection** object.

Remove

```
[C#] public void Remove(string key);
[C++] public: void Remove(String* key);
[VB] Public Sub Remove(ByVal key As String)
[JScript] public function Remove(key : String);
```

Description

Removes a style item from the **CssStyleCollection** object. The index of the style item to remove.

DataBinder class (System.Web.UI)

ToString

Description

Provides design-time support for RAD designers to generate and parse . This class cannot be inherited.

You can use the overloaded **System.Web.UI.DataBinder.Eval(System.Object,System.String)** method of this class in Web Forms page data-binding syntax. This provides an easier syntax to remember than standard data binding, but because **DataBinder.Eval** provides automatic type conversion, can result in slower server response times.

DataBinder

Example Syntax:

ToString

[C#] public DataBinder();

[C++] public: DataBinder();

[VB] Public Sub New()

[JScript] public function DataBinder();

Eval

[C#] public static object Eval(object container, string expression);

[C++] public: static Object* Eval(Object* container, String* expression);

[VB] Public Shared Function Eval(ByVal container As Object, ByVal expression

As String) As Object [JScript] public static function Eval(container : Object, expression : String) : Object; Uses reflection to parse and evaluate a data-binding expression against an object at runtime. This method allows RAD designers, such as Visual Studio.NET, to easily generate and parse data-binding syntax. This method can also be used declaratively on a Web Forms page to simplify casting to text that can be displayed in a browser.

Description

Evaluates data binding expressions at runtime. *Return Value:* An **System.Object** that results from the evaluation of the data-binding expression.

While this method is automatically called when you create data bindings in a RAD designer, you can also use it declaratively if you want to simplify the casting to a text string to be displayed on a browser. To do so, you must place the tags, which are also used in standard ASP.NET data binding, around the data-binding expression. The object reference against which the expression is evaluated. This must be a valild object identifier in the page's specified language. The navigation path from the *container* to the property value to be placed in the bound control property. This must be a string type of property or field names separated by dots, such as **Table.DefaultView.Price** .

Eval

[C#] public static string Eval(object container, string expression, string format); [C++] public: static String* Eval(Object* container, String* expression, String* format);

[VB] Public Shared Function Eval(ByVal container As Object, ByVal expression As String, ByVal format As String) As String

[JScript] public static function Eval(container : Object, expression : String, format : String) : String;

Description

Evaluates data binding expressions at runtime and formats the output as text to be displayed in the requesting browser. *Return Value:* A **System.String** that results from the evaluation of the data binding expression and conversion to a string type. This will be displayed by the requesting browser.

To learn more about format strings in the .NET Framework, see . The object reference against which the expression is evaluated. This must be a valild object identifier in the page's specified language. The navigation path from the *container* to the property value to be placed in the bound control property. This must be a string of property or field names separated by dots, such as **Table.DefaultView.Price** . A .NET Framework format string that converts the **System.Object** (which results from the evaluation of the data binding expression) to a **System.String** that can be displayed by the requesting browser.

GetIndexedPropertyValue

[C#] public static object GetIndexedPropertyValue(object container, string expr);

[C++] public: static Object* GetIndexedPropertyValue(Object* container, String* expr);

```
[VB] Public Shared Function GetIndexedPropertyValue(ByVal container As Object, ByVal expr As String) As Object
[JScript] public static function GetIndexedPropertyValue(container : Object, expr : String) : Object;
```

Description

GetIndexedPropertyValue

```
[C#] public static string GetIndexedPropertyValue(object container, string propName, string format);
[C++] public: static String* GetIndexedPropertyValue(Object* container, String* propName, String* format);
[VB] Public Shared Function GetIndexedPropertyValue(ByVal container As Object, ByVal propName As String, ByVal format As String) As String
[JScript] public static function GetIndexedPropertyValue(container : Object, propName : String, format : String) : String;
```

Description

GetPropertyValue

```
[C#] public static object GetPropertyValue(object container, string propName);
[C++] public: static Object* GetPropertyValue(Object* container, String* propName);
[VB] Public Shared Function GetPropertyValue(ByVal container As Object, ByVal propName As String) As Object
```

[JScript] public static function GetPropertyValue(container : Object, propName : String) : Object;

Description

GetPropertyValue

[C#] public static string GetPropertyValue(object container, string propName, string format);

[C++] public: static String* GetPropertyValue(Object* container, String* propName, String* format);

[VB] Public Shared Function GetPropertyValue(ByVal container As Object, ByVal propName As String, ByVal format As String) As String

[JScript] public static function GetPropertyValue(container : Object, propName : String, format : String) : String;

Description

DataBinding class (System.Web.UI)

ToString

Description

Contains information about a single data-binding expression in an ASP.NET server control, which allows rapid-application development (RAD) designers, such as Visual Studio .NET, to create data-binding expressions at design time. This class cannot be inherited.

Each data-binding expression in a server control is represented at design time by an instance of the **DataBinding** class. Any server control that contains one or more data-binding expressions has a **System.Web.UI.DataBindingCollection** object that contains the **DataBinding** objects. This collection is accessible by implementing the **System.Web.UI.IDataBindingsAccessor** interface. Any **DataBinding** or **DataBindingCollection** objects associated with a server control exist only at design time. They do not exist at runtime and, therefore, are not accessible then.

DataBinding

Example Syntax:

ToString

```
[C#] public DataBinding(string propertyName, Type propertyType, string expression);
[C++] public: DataBinding(String* propertyName, Type* propertyType, String* expression);
[VB] Public Sub New(ByVal propertyName As String, ByVal propertyType As Type, ByVal expression As String)
[JScript] public function DataBinding(propertyName : String, propertyType : Type, expression : String);
```

Description

Initializes a new instance of the **System.Web.UI.DataBinding** class. The property to data bind to. The .NET Framework type of the property to data bind to. The data-binding expression to be evaluated.

Expression

ToString

[C#] public string Expression {get; set;}

[C++] public: __property String* get_Expression();public: __property void set_Expression(String*);

[VB] Public Property Expression As String

[JScript] public function get Expression() : String;public function set Expression(String);

Description

Gets or sets the data-binding expression to be evaluated.

Whether or not you bind data to a server control property, data-binding expressions take the following form: .

PropertyName

ToString

[C#] public string PropertyName {get;}

[C++] public: __property String* get_PropertyName();

[VB] Public ReadOnly Property PropertyName As String

[JScript] public function get PropertyName() : String;

Description

Gets the name of the ASP.NET server control property to be data bound against.

PropertyType

ToString

[C#] public Type PropertyType {get;}

[C++] public: __property Type* get_PropertyType();

[VB] Public ReadOnly Property PropertyType As Type

[JScript] public function get PropertyType() : Type;

Description

Gets the .NET Framework type of the data-bound ASP.NET server control property.

Equals

[C#] public override bool Equals(object obj);

[C++] public: bool Equals(Object* obj);

[VB] Overrides Public Function Equals(ByVal obj As Object) As Boolean

[JScript] public override function Equals(obj : Object) : Boolean;

Description

Determines whether the specified object is the same instance of the **System.Web.UI.DataBinding** class as the current object. *Return Value:* **true** if the data binding property names match; otherwise, **false** . The object to compare against the current **DataBinding** object.

GetHashCode

```
[C#] public override int GetHashCode();
[C++] public: int GetHashCode();
[VB] Overrides Public Function GetHashCode() As Integer
[JScript] public override function GetHashCode() : int;
```

Description

Retrieves the hash code for an instance of the **System.Web.UI.DataBinding** object.

Return Value: A 32-bit signed integer hash code.

DataBinding objects are placed in a **System.Web.UI.DataBindingCollection** object, accessible at design time through the server control's **System.Web.UI.Control.DataBindings** property, which is a hash table that represents the bindings on a control. There can only be one binding per property, so the hashcode computation should match the **System.Web.UI.DataBinding.Equals(System.Object)** implementation and only take the property name into account.

DataBindingCollection class (System.Web.UI)

ToString

Description

Provides a collection of **System.Web.UI.DataBinding** objects for an ASP.NET server control. This class cannot be inherited.

This collection is a hash table containing all of the **System.Web.UI.DataBinding** objects on an ASP.NET server control. You can access the objects contained in this collection by implementing the **System.Web.UI.IDataBindingsAccessor** interface. Any **DataBinding** or **DataBindingCollection** objects associated with a server control exist only at design time. They do not exist at runtime and, therefore, are not accessible then.

DataBindingCollection

Example Syntax:

ToString

```
[C#] public DataBindingCollection();
[C++] public: DataBindingCollection();
[VB] Public Sub New()
[JScript] public function DataBindingCollection();
```

Description

Initializes a new instance of the **System.Web.UI.DataBindingCollection** class.

Count

ToString

```
[C#] public int Count {get;}
[C++] public: __property int get_Count();
[VB] Public ReadOnly Property Count As Integer
[JScript] public function get Count() : int;
```

Description

Gets the number of **System.Web.UI.DataBinding** objects in the **System.Web.UI.DataBindingCollection** object.

IsReadOnly

ToString

[C#] public bool IsReadOnly {get;}

[C++] public: __property bool get_IsReadOnly();

[VB] Public ReadOnly Property IsReadOnly As Boolean

[JScript] public function get IsReadOnly() : Boolean;

Description

Gets a value indicating whether the **System.Web.UI.DataBindingCollection** is read-only.

IsSynchronized

ToString

[C#] public bool IsSynchronized {get;}

[C++] public: __property bool get_IsSynchronized();

[VB] Public ReadOnly Property IsSynchronized As Boolean

[JScript] public function get IsSynchronized() : Boolean;

Description

Gets a value indicating whether the **System.Web.UI.DataBindingCollection** is synchronized (thread-safe).

Item

ToString

[C#] public DataBinding this[string propertyName] {get;}
[C++] public: __property DataBinding* get_Item(String* propertyName);
[VB] Public Default ReadOnly Property Item(ByVal propertyName As String) As DataBinding
[JScript] returnValue = DataBindingCollectionObject.Item(propertyName);

Description

Gets the **System.Web.UI.DataBinding** object with the specified property name. The name of the property to be found.

RemovedBindings

ToString

[C#] public string[] RemovedBindings {get;}
[C++] public: __property String* get_RemovedBindings();
[VB] Public ReadOnly Property RemovedBindings As String ()
[JScript] public function get RemovedBindings() : String[];

Description

Gets an array of the names of the **System.Web.UI.DataBinding** objects removed from the collection.

SyncRoot

ToString

```
[C#] public object SyncRoot {get;}
[C++] public: __property Object* get_SyncRoot();
[VB] Public ReadOnly Property SyncRoot As Object
[JScript] public function get SyncRoot() : Object;
```

Description

Gets an object that can be used to synchronize access to the **System.Web.UI.DataBindingCollection** .

Add

```
[C#] public void Add(DataBinding binding);
[C++] public: void Add(DataBinding* binding);
[VB] Public Sub Add(ByVal binding As DataBinding)
[JScript] public function Add(binding : DataBinding);
```

Description

Adds the specified **System.Web.UI.DataBinding** object to the **System.Web.UI.DataBindingCollection** . The data binding object to add.

Clear

```
[C#] public void Clear();
[C++] public: void Clear();
```

```
[VB] Public Sub Clear()
[JScript] public function Clear();
```

Description

Removes all **System.Web.UI.DataBinding** objects from the **System.Web.UI.DataBindingCollection** .

CopyTo

```
[C#] public void CopyTo(Array array, int index);
[C++] public: __sealed void CopyTo(Array* array, int index);
[VB] NotOverridable Public Sub CopyTo(ByVal array As Array, ByVal index As Integer)
[JScript] public function CopyTo(array : Array, index : int);
```

Description

Copies the **DataBindingCollection** values to a one-dimensional **System.Array** , beginning at the **Array** object's specified index. The one-dimensional **System.Array** object that is the destination of the values copied from **DataBindingCollection**. The index in the array, specified by the *array* parameter, where copying begins.

GetEnumerator

```
[C#] public IEnumerator GetEnumerator();
[C++] public: __sealed IEnumerator* GetEnumerator();
[VB] NotOverridable Public Function GetEnumerator() As IEnumerator
```

[JScript] public function GetEnumerator() : IEnumerator;

Description

Returns an enumerator to iterate through the **System.Web.UI.DataBindingCollection** object. *Return Value:* An **System.Collections.IEnumerator** that contains the collection's members.

Remove

[C#] public void Remove(DataBinding binding);
[C++] public: void Remove(DataBinding* binding);
[VB] Public Sub Remove(ByVal binding As DataBinding)
[JScript] public function Remove(binding : DataBinding);

Description

Removes the specified **System.Web.UI.DataBinding** object from the **System.Web.UI.DataBindingCollection** . The **System.Web.UI.DataBinding** object to be removed from the **System.Web.UI.DataBindingCollection**.

Remove

[C#] public void Remove(string propertyName);
[C++] public: void Remove(String* propertyName);
[VB] Public Sub Remove(ByVal propertyName As String)
[JScript] public function Remove(propertyName : String); Removes a **System.Web.UI.DataBinding** object from the

System.Web.UI.DataBindingCollection

Description

Removes the **System.Web.UI.DataBinding** object associated with the specified property name from the **System.Web.UI.DataBindingCollection** . The property name associated with the **System.Web.UI.DataBinding** object to be removed.

Remove

[C#] public void Remove(string propertyName, bool addToRemovedList);
[C++] public: void Remove(String* propertyName, bool addToRemovedList);
[VB] Public Sub Remove(ByVal propertyName As String, ByVal addToRemovedList As Boolean)
[JScript] public function Remove(propertyName : String, addToRemovedList : Boolean);

Description

Removes the **System.Web.UI.DataBinding** object, associated with the specified property name, from the **System.Web.UI.DataBindingCollection** and instructs the collection not to add the removed **DataBinding** object to the **System.Web.UI.DataBindingCollection.RemovedBindings** list. The property associated with the **DataBinding** object to be removed. A **Boolean** that indicates whether to add the property name to the **RemovedBindings** list.

DataBindingHandlerAttribute class (System.Web.UI)

ToString

Description

Specifies a design-time class that performs databinding of controls within a designer.

ToString

[C#] public static readonly DataBindingHandlerAttribute Default;
[C++] public: static DataBindingHandlerAttribute* Default;
[VB] Public Shared ReadOnly Default As DataBindingHandlerAttribute
[JScript] public static var Default : DataBindingHandlerAttribute;

Description

Defines the default constructor for the **System.Web.UI.DataBindingHandlerAttribute** class. This field is read-only.

DataBindingHandlerAttribute

Example Syntax:

ToString

[C#] public DataBindingHandlerAttribute();
[C++] public: DataBindingHandlerAttribute();
[VB] Public Sub New()
[JScript] public function DataBindingHandlerAttribute(); Initializes a new instance of the **System.Web.UI.DataBindingHandlerAttribute** class.

Description

Initializes a new instance of the **System.Web.UI.DataBindingHandlerAttribute** class using no parameters. This is the default constructor.

DataBindingHandlerAttribute

Example Syntax:

ToString

[C#] public DataBindingHandlerAttribute(string typeName);
[C++] public: DataBindingHandlerAttribute(String* typeName);
[VB] Public Sub New(ByVal typeName As String)
[JScript] public function DataBindingHandlerAttribute(typeName : String);

Description

Initializes a new instance of the **System.Web.UI.DataBindingHandlerAttribute** class with the specified type name.

The syntax for this attribute is: [DataBindingHandlerAttribute typeof((dataBindingHandlerType))] The name of the data binding handler's type.

DataBindingHandlerAttribute

Example Syntax:

ToString

[C#] public DataBindingHandlerAttribute(Type type);

[C++] public: DataBindingHandlerAttribute(Type* type);

[VB] Public Sub New(ByVal type As Type)

[JScript] public function DataBindingHandlerAttribute(type : Type);

Description

Initializes a new instance of the **System.Web.UI.DataBindingHandlerAttribute** class of the specified Type. The type name for this constructor is the fully-qualified name of the type, including the assembly name from which it was loaded. The Type assigned to the data binding handler.

HandlerTypeName

ToString

[C#] public string HandlerTypeName {get;}

[C++] public: __property String* get_HandlerTypeName();

[VB] Public ReadOnly Property HandlerTypeName As String

[JScript] public function get HandlerTypeName() : String;

Description

Gets the type name of the data binding handler. If the type name is **null** , this property returns an empty string.

TypeId

DataBoundLiteralControl class (System.Web.UI)

ToString

Description

Creates a control for HTML text that does not contain code processed on the server, but persists the value of its **System.Web.UI.DataBoundLiteralControl.Text** property to view state. This class cannot be inherited.

This class allows the data binding syntax to be implemented.

DataBoundLiteralControl

Example Syntax:

ToString

[C#] public DataBoundLiteralControl(int staticLiteralsCount, int dataBoundLiteralCount);

[C++] public: DataBoundLiteralControl(int staticLiteralsCount, int dataBoundLiteralCount);

[VB] Public Sub New(ByVal staticLiteralsCount As Integer, ByVal dataBoundLiteralCount As Integer)

[JScript] public function DataBoundLiteralControl(staticLiteralsCount : int, dataBoundLiteralCount : int);

Description

ChildControlsCreated

ClientID

Context

Controls

EnableViewState

Events

HasChildViewState

ID

IsTrackingViewState

NamingContainer

Page

Parent

Site

TemplateSourceDirectory

Text

ToString

Description

Gets or sets the text content of the **System.Web.UI.DataBoundLiteralControl** object.

UniqueID

ViewState

ViewStateIgnoresCase

Visible

CreateControlCollection

[C#] protected override ControlCollection CreateControlCollection();
[C++] protected: ControlCollection* CreateControlCollection();
[VB] Overrides Protected Function CreateControlCollection() As ControlCollection
[JScript] protected override function CreateControlCollection() : ControlCollection;

Description

Creates an **System.Web.UI.EmptyCollectionControl** object for the current instance of the **System.Web.UI.DataBoundLiteralControl** . *Return Value:* The **EmptyCollectionControl** object for the current control.

LoadViewState

[C#] protected override void LoadViewState(object savedState);
[C++] protected: void LoadViewState(Object* savedState);
[VB] Overrides Protected Sub LoadViewState(ByVal savedState As Object)
[JScript] protected override function LoadViewState(savedState : Object);

Description

Loads the previously saved view state. You can override this method to synchronize **System.Web.UI.DataBoundLiteralControl.Text** property with new literal content. The previously saved view state.

Render

```
[C#] protected override void Render(HtmlTextWriter output);
[C++] protected: void Render(HtmlTextWriter* output);
[VB] Overrides Protected Sub Render(ByVal output As HtmlTextWriter)
[JScript] protected override function Render(output : HtmlTextWriter);
```

Description

Writes the content of the **System.Web.UI.DataBoundLiteralControl** object to an output stream. The output stream that renders HTML content to the client.

SaveViewState

```
[C#] protected override object SaveViewState();
[C++] protected: Object* SaveViewState();
[VB] Overrides Protected Function SaveViewState() As Object
[JScript] protected override function SaveViewState() : Object;
```

Description

Saves any view state modified after the control began monitoring state changes.

Return Value: An **System.Object** that contains the savied view state values.

SetDataBoundString

```
[C#] public void SetDataBoundString(int index, string s);
[C++] public: void SetDataBoundString(int index, String* s);
```

[VB] Public Sub SetDataBoundString(ByVal index As Integer, ByVal s As String)
[JScript] public function SetDataBoundString(index : int, s : String);

Description

SetStaticString

[C#] public void SetStaticString(int index, string s);
[C++] public: void SetStaticString(int index, String* s);
[VB] Public Sub SetStaticString(ByVal index As Integer, ByVal s As String)
[JScript] public function SetStaticString(index : int, s : String);

Description

DesignerDataBoundLiteralControl class (System.Web.UI)

TrackViewState

Description

Simpler version of DataBoundLiteralControlBuilder, used at design time.

DesignerDataBoundLiteralControl

Example Syntax:

TrackViewState

[C#] public DesignerDataBoundLiteralControl();

```
[C++] public: DesignerDataBoundLiteralControl();
[VB] Public Sub New()
[JScript] public function DesignerDataBoundLiteralControl();
```

Description

ChildControlsCreated

ClientID

Context

Controls

EnableViewState

Events

HasChildViewState

ID

IsTrackingViewState

NamingContainer

Page

Parent

Site

TemplateSourceDirectory

Text

TrackViewState

Description

Gets or sets the text content of the data-bound literal control.

UniqueID

ViewState

ViewStateIgnoresCase

Visible

CreateControlCollection

[C#] protected override ControlCollection CreateControlCollection();

[C++] protected: ControlCollection* CreateControlCollection();

[VB] Overrides Protected Function CreateControlCollection() As ControlCollection

[JScript] protected override function CreateControlCollection() : ControlCollection;

Description

LoadViewState

[C#] protected override void LoadViewState(object savedState);

[C++] protected: void LoadViewState(Object* savedState);

[VB] Overrides Protected Sub LoadViewState(ByVal savedState As Object)

[JScript] protected override function LoadViewState(savedState : Object);

Description

Loads the previously saved state. Overridden to synchronize Text property with LiteralContent.

Render

```
[C#] protected override void Render(HtmlTextWriter output);
[C++] protected: void Render(HtmlTextWriter* output);
[VB] Overrides Protected Sub Render(ByVal output As HtmlTextWriter)
[JScript] protected override function Render(output : HtmlTextWriter);
```

Description

Saves any state that was modified after the control began monitoring state changes.

SaveViewState

```
[C#] protected override object SaveViewState();
[C++] protected: Object* SaveViewState();
[VB] Overrides Protected Function SaveViewState() As Object
[JScript] protected override function SaveViewState() : Object;
```

Description

The object that contains the state changes.

DesignTimeParseData class (System.Web.UI)

TrackViewState

DesignTimeParseData

Example Syntax:

TrackViewState

DataBindingHandler

TrackViewState

DesignerHost

TrackViewState

DocumentUrl

TrackViewState

ParseText

TrackViewState

DesignTimeTemplateParser class (System.Web.UI)

ToString

ParseControl

[C#] public static Control ParseControl(DesignTimeParseData data);

[C++] public: static Control* ParseControl(DesignTimeParseData* data);

[VB] Public Shared Function ParseControl(ByVal data As DesignTimeParseData) As Control

[JScript] public static function ParseControl(data : DesignTimeParseData) : Control;

ParseTemplate

[C#] public static ITemplate ParseTemplate(DesignTimeParseData data);

[C++] public: static ITemplate* ParseTemplate(DesignTimeParseData* data);

[VB] Public Shared Function ParseTemplate(ByVal data As DesignTimeParseData) As ITemplate

[JScript] public static function ParseTemplate(data : DesignTimeParseData) : ITemplate;

EmptyControlCollection class (System.Web.UI)

ToString

Description

Provides standard support for a ControlCollection that is always empty.

This class is used when you want to define a custom control that does not allow child controls.

EmptyControlCollection

Example Syntax:

ToString

[C#] public EmptyControlCollection(Control owner);

[C++] public: EmptyControlCollection(Control* owner);

[VB] Public Sub New(ByVal owner As Control)

[JScript] public function EmptyControlCollection(owner : Control);

Description

Instantiates an empty control collection.

Count

IsReadOnly

IsSynchronized

Item

Owner

SyncRoot

Add

```
[C#] public override void Add(Control child);
[C++] public: void Add(Control* child);
[VB] Overrides Public Sub Add(ByVal child As Control)
[JScript] public override function Add(child : Control);
```

Description

Denies the addition of the specified **System.Web.UI.Control** object to the collection.

AddAt

```
[C#] public override void AddAt(int index, Control child);
[C++] public: void AddAt(int index, Control* child);
[VB] Overrides Public Sub AddAt(ByVal index As Integer, ByVal child As Control)
[JScript] public override function AddAt(index : int, child : Control);
```

Description

Denies the addition of the specified **System.Web.UI.Control** object to the collection, at the specified index position.

Html32TextWriter class (System.Web.UI)

ToString

Description

Provides a text writer for ASP.NET server controls that render content to downlevel clients only.

Html32TextWriter

Example Syntax:

ToString

System.Web.UI.Html32TextWriter

Description

Initializes a new instance of the **System.Web.UI.Html32TextWriter** class that uses the **System.Web.UI.HtmlTextWriter.DefaultTabString** constant when indentation of a line is necessary. The **System.IO.TextWriter** object to render the HMTL content.

Html32TextWriter

Example Syntax:

ToString

[C#] public Html32TextWriter(TextWriter writer, string tabString); [C++] public: Html32TextWriter(TextWriter* writer, String* tabString); [VB] Public Sub New(ByVal writer As TextWriter, ByVal tabString As String) [JScript] public function Html32TextWriter(writer : TextWriter, tabString : String);

Description

Initializes a new instance of the **System.Web.UI.Html32TextWriter** class using the specified tab spacing. The **System.IO.TextWriter** object to render the HMTL content. A **System.String** that represents the number of spaces defined in the **System.Web.UI.HtmlTextWriter.Indent** property.

Encoding

FontStack

ToString

Description

Gets a collection of font information for the HTML to render.

FormatProvider

Indent

InnerWriter

NewLine

TagKey

TagName

GetTagName

[C#] protected override string GetTagName(HtmlTextWriterTag tagKey);
[C++] protected: String* GetTagName(HtmlTextWriterTag tagKey);
[VB] Overrides Protected Function GetTagName(ByVal tagKey As HtmlTextWriterTag) As String

[JScript] protected override function GetTagName(tagKey : HtmlTextWriterTag) : String;

Description

Obtains the HTML element associated with the specified **System.Web.UI.HtmlTextWriterTag** enumeration value. *Return Value:* The HTML element.

If HtmlTextWriterTag.Div is passed in the tagKey parameter, this method returns the HTML

element. The **HtmlTextWriterTag** value to obtain the HTML element for.

OnStyleAttributeRender

[C#] protected override bool OnStyleAttributeRender(string name, string value, HtmlTextWriterStyle key);

[C++] protected: bool OnStyleAttributeRender(String* name, String* value, HtmlTextWriterStyle key);

[VB] Overrides Protected Function OnStyleAttributeRender(ByVal name As String, ByVal value As String, ByVal key As HtmlTextWriterStyle) As Boolean

[JScript] protected override function OnStyleAttributeRender(name : String, value : String, key : HtmlTextWriterStyle) : Boolean;

Description

Determines whether the specified HTML style attribute and its value have been rendered to the requesting page.

Return Value: **true** if the HTML style attribute and its value have been rendered to the requesting page; otherwise, **false** .

This method supports a smaller number of HTML style attributes than the of the **System.Web.UI.HtmlTextWriter.OnStyleAttributeRender(System.String,System.String,System.Web.UI.HtmlTextWriterStyle)** method which it overrides. The HTML style attribute to render to the client. The value associated with the HTML style attribute. The **System.Web.UI.HtmlTextWriterStyle** enumeration value associated with the HTML style attribute.

OnTagRender

[C#] protected override bool OnTagRender(string name, HtmlTextWriterTag key);
[C++] protected: bool OnTagRender(String* name, HtmlTextWriterTag key);
[VB] Overrides Protected Function OnTagRender(ByVal name As String, ByVal key As HtmlTextWriterTag) As Boolean
[JScript] protected override function OnTagRender(name : String, key : HtmlTextWriterTag) : Boolean;

Description

Determines whether the specified HTML element has been rendered to the requesting page.
Return Value: **true** if the HTML element has been rendered to the requesting page; otherwise **false** .

This method associates the

element with an HTML table to simplify page layout for browsers that do not support this element. The HTML element to render. The **System.Web.UI.HtmlTextWriterTag** enumeration value associated with the HTML element.

RenderAfterContent

[C#] protected override string RenderAfterContent();
[C++] protected: String* RenderAfterContent();
[VB] Overrides Protected Function RenderAfterContent() As String
[JScript] protected override function RenderAfterContent() : String;

Description

Writes any text or spacing that occurs after the content of the HTML element to the **System.Web.UI.HtmlTextWriter** output stream. *Return Value:* The spacing or text to write prior to the content of the HTML element. If there is no such information to render, this method returns **null** .

RenderAfterTag

[C#] protected override string RenderAfterTag();
[C++] protected: String* RenderAfterTag();
[VB] Overrides Protected Function RenderAfterTag() As String
[JScript] protected override function RenderAfterTag() : String;

Description

Writes any spacing or text that occurs after an HTML element's closing tag. *Return Value:* The spacing or text to write after the closing tag of the HTML element. If there is no such information to render, this method returns **null** .

RenderBeforeContent

[C#] protected override string RenderBeforeContent();
[C++] protected: String* RenderBeforeContent();
[VB] Overrides Protected Function RenderBeforeContent() As String
[JScript] protected override function RenderBeforeContent() : String;

Description

Writes any tab spacing or font information that appears before the content contained in an HTML element. *Return Value:* The font information or spacing to write prior to the content of the HTML element. If there is no such information to render, this method returns **null** .

RenderBeforeTag

[C#] protected override string RenderBeforeTag();
[C++] protected: String* RenderBeforeTag();
[VB] Overrides Protected Function RenderBeforeTag() As String
[JScript] protected override function RenderBeforeTag() : String;

Description

Writes any text or tab spacing that occurs before the opening tag of an HTML element to the **System.Web.UI.HtmlTextWriter** output stream. *Return Value:* Any HTML font and spacing information to render before the tag; if there is no such information to render, this method returns **null** .

RenderBeginTag

[C#] public override void RenderBeginTag(HtmlTextWriterTag tagKey);
[C++] public: void RenderBeginTag(HtmlTextWriterTag tagKey);
[VB] Overrides Public Sub RenderBeginTag(ByVal tagKey As HtmlTextWriterTag)
[JScript] public override function RenderBeginTag(tagKey : HtmlTextWriterTag);

Description

Writes the opening tag of the specified HTML element to the **System.Web.UI.HtmlTextWriter** output stream.

If the

element is specified, this method performs basic HTML

formatting to present the HTML content. The **System.Web.UI.HtmlTextWriterTag** enumeration value that indicates the HTML element to write.

RenderEndTag

[C#] public override void RenderEndTag();
[C++] public: void RenderEndTag();
[VB] Overrides Public Sub RenderEndTag()

[JScript] public override function RenderEndTag();

Description

Writes the end tag of an HTML element to the **System.Web.UI.HtmlTextWriter** output stream along with any font information that is associated with the element.

HtmlTextWriter class (System.Web.UI)

WriteStyleAttribute

Description

Represents a writer that writes a sequential series of HTML-specific characters and text. This class provides formatting capabilities that ASP.NET server controls use when rendering HTML content to clients.

This class is commonly used to render HTML to a Web Forms page. Use it as an output stream when you override the **System.Web.UI.Control.Render(System.Web.UI.HtmlTextWriter)** , **System.Web.UI.LiteralControl.Render(System.Web.UI.HtmlTextWriter)** , and other ASP.NET server control methods that write content to a Web page.

WriteStyleAttribute

Description

Represents the characters that make up the default tab.

WriteStyleAttribute

```
[C#] public const char DoubleQuoteChar;
[C++] public: const __wchar_t DoubleQuoteChar;
[VB] Public Const DoubleQuoteChar As Char
[JScript] public var DoubleQuoteChar : Char;
```

Description

Represents a double-quote character.

WriteStyleAttribute

```
[C#] public const string EndTagLeftChars;
[C++] public: const String* EndTagLeftChars;
[VB] Public Const EndTagLeftChars As String
[JScript] public var EndTagLeftChars : String;
```

Description

Represents the left angle bracket and closing forward slash for a closing tag of an HTML element.

WriteStyleAttribute

```
[C#] public const char EqualsChar;
[C++] public: const __wchar_t EqualsChar;
[VB] Public Const EqualsChar As Char
[JScript] public var EqualsChar : Char;
```

Description

Represents the equal sign character.

WriteStyleAttribute

[C#] public const string EqualsDoubleQuoteString;

[C++] public: const String* EqualsDoubleQuoteString;

[VB] Public Const EqualsDoubleQuoteString As String

[JScript] public var EqualsDoubleQuoteString : String;

Description

Represents an equal sign, a forward slash, and a double quote character together in a **System.String** .

WriteStyleAttribute

[C#] public const string SelfClosingChars;

[C++] public: const String* SelfClosingChars;

[VB] Public Const SelfClosingChars As String

[JScript] public var SelfClosingChars : String;

Description

Represents the self-closing forward slash character of an HTML tag.

This charcter is used in HTML elements that are self-closed. For example, .

WriteStyleAttribute

```
[C#] public const string SelfClosingTagEnd;
[C++] public: const String* SelfClosingTagEnd;
[VB] Public Const SelfClosingTagEnd As String
[JScript] public var SelfClosingTagEnd : String;
```

Description

Represents the closing forward slash and right angle bracket of a self-closing HTML element.

WriteStyleAttribute

```
[C#] public const char SemicolonChar;
[C++] public: const __wchar_t SemicolonChar;
[VB] Public Const SemicolonChar As Char
[JScript] public var SemicolonChar : Char;
```

Description

Represents the semicolon character.

WriteStyleAttribute

```
[C#] public const char SingleQuoteChar;
[C++] public: const __wchar_t SingleQuoteChar;
[VB] Public Const SingleQuoteChar As Char
[JScript] public var SingleQuoteChar : Char;
```

Description

Represents a single quote character.

WriteStyleAttribute

```
[C#] public const char SlashChar;
[C++] public: const __wchar_t SlashChar;
[VB] Public Const SlashChar As Char
[JScript] public var SlashChar : Char;
```

Description

Represents the backslash character.

WriteStyleAttribute

```
[C#] public const char SpaceChar;
[C++] public: const __wchar_t SpaceChar;
[VB] Public Const SpaceChar As Char
[JScript] public var SpaceChar : Char;
```

Description

Represents a space character.

WriteStyleAttribute

```
[C#] public const char StyleEqualsChar;
[C++] public: const __wchar_t StyleEqualsChar;
```

```
[VB]        Public     Const     StyleEqualsChar     As     Char
[JScript]       public      var      StyleEqualsChar      :      Char;
```

Description

Represents the colon character.

WriteStyleAttribute

```
[C#]        public        const        char        TagLeftChar;
[C++]       public:       const        __wchar_t   TagLeftChar;
[VB]        Public     Const     TagLeftChar     As     Char
[JScript]       public      var      TagLeftChar      :      Char;
```

Description

Represents the opening angle-bracket character of an HTML tag.

WriteStyleAttribute

```
[C#]        public        const        char        TagRightChar;
[C++]       public:       const        __wchar_t   TagRightChar;
[VB]        Public     Const     TagRightChar     As     Char
[JScript]       public      var      TagRightChar      :      Char;
```

Description

Represents the closing angle-bracket character of an HTML tag.

HtmlTextWriter

Example Syntax:

WriteStyleAttribute

[C#] public HtmlTextWriter(TextWriter writer);
[C++] public: HtmlTextWriter(TextWriter* writer);
[VB] Public Sub New(ByVal writer As TextWriter)
[JScript] public function HtmlTextWriter(writer : TextWriter); Initializes a new instance of the **System.Web.UI.HtmlTextWriter** class.

Description

Initializes a new instance of the **System.Web.UI.HtmlTextWriter** class that uses the **System.Web.UI.HtmlTextWriter.DefaultTabString** constant when indentation of a line is necessary. The **System.IO.TextWriter** object to render the HMTL content.

HtmlTextWriter

Example Syntax:

WriteStyleAttribute

[C#] public HtmlTextWriter(TextWriter writer, string tabString);
[C++] public: HtmlTextWriter(TextWriter* writer, String* tabString);
[VB] Public Sub New(ByVal writer As TextWriter, ByVal tabString As String)
[JScript] public function HtmlTextWriter(writer : TextWriter, tabString : String);

Description

Initializes a new instance of the **System.Web.UI.HtmlTextWriter** class with the line indenation as specified in the *tabString* parameter. The

System.IO.TextWriter object to render the HMTL content. A **System.String** that represents the number of spaces defined in the **System.Web.UI.HtmlTextWriter.Indent** property.

Encoding

WriteStyleAttribute

[C#] public override Encoding Encoding {get;}
[C++] public: __property virtual Encoding* get_Encoding();
[VB] Overrides Public ReadOnly Property Encoding As Encoding
[JScript] public function get Encoding() : Encoding;

Description

Gets the **System.Text.Encoding** that the **System.Web.UI.HtmlTextWriter** object uses to write content to the page.

FormatProvider

Indent

WriteStyleAttribute

Description

Gets or sets the number of spaces to indent at the beginning of a line.

InnerWriter

WriteStyleAttribute

[C#] public TextWriter InnerWriter {get; set;}

[C++] public: __property TextWriter* get_InnerWriter();public: __property void set_InnerWriter(TextWriter*);

[VB] Public Property InnerWriter As TextWriter

[JScript] public function get InnerWriter() : TextWriter;public function set InnerWriter(TextWriter);

Description

Gets the text writer that writes the inner content of the HTML element.

NewLine

WriteStyleAttribute

[C#] public override string NewLine {get; set;}

[C++] public: __property virtual String* get_NewLine();public: __property virtual void set_NewLine(String*);

[VB] Overrides Public Property NewLine As String

[JScript] public function get NewLine() : String;public function set NewLine(String);

Description

Gets or sets the line terminator string used by the current **System.Web.UI.HtmlTextWriter** .

The default line terminator string is a carriage return followed by a line feed ("\r\n").

TagKey

WriteStyleAttribute

[C#] protected HtmlTextWriterTag TagKey {get; set;}
[C++] protected: __property HtmlTextWriterTag get_TagKey();protected: __property void set_TagKey(HtmlTextWriterTag);
[VB] Protected Property TagKey As HtmlTextWriterTag
[JScript] protected function get TagKey() : HtmlTextWriterTag;protected function set TagKey(HtmlTextWriterTag);

Description

Gets or sets the **System.Web.UI.HtmlTextWriterTag** value for the specified HTML element.

TagName

WriteStyleAttribute

[C#] protected string TagName {get; set;}
[C++] protected: __property String* get_TagName();protected: __property void set_TagName(String*);
[VB] Protected Property TagName As String
[JScript] protected function get TagName() : String;protected function set TagName(String);

Description

Gets or sets the name of the HTML element to be written to the rendered page.

AddAttribute

[C#] public virtual void AddAttribute(HtmlTextWriterAttribute key, string value);
[C++] public: virtual void AddAttribute(HtmlTextWriterAttribute key, String* value);
[VB] Overridable Public Sub AddAttribute(ByVal key As HtmlTextWriterAttribute, ByVal value As String)
[JScript] public function AddAttribute(key : HtmlTextWriterAttribute, value : String);

Description

Adds the HTML attribute associated with the specified **System.Web.UI.HtmlTextWriterAttribute** key and the specified value to the **System.Web.UI.HtmlTextWriter** output stream. An **HtmlTextWriterAttribute** value that represents the HTML attribute. The value to assign to the HTML attribute.

AddAttribute

[C#] public virtual void AddAttribute(string name, string value);
[C++] public: virtual void AddAttribute(String* name, String* value);
[VB] Overridable Public Sub AddAttribute(ByVal name As String, ByVal value As String)
[JScript] public function AddAttribute(name : String, value : String); Adds an HTML attribute and its value to an **System.Web.UI.HtmlTextWriter** output stream to be rendered on a client.

Description

Adds the specified HTML attribute and value to the **HtmlTextWriter** output stream. The HTML attribute to add. The value to assign to the HTML attribute.

AddAttribute

[C#] public virtual void AddAttribute(HtmlTextWriterAttribute key, string value, bool fEncode);

[C++] public: virtual void AddAttribute(HtmlTextWriterAttribute key, String* value, bool fEncode);

[VB] Overridable Public Sub AddAttribute(ByVal key As HtmlTextWriterAttribute, ByVal value As String, ByVal fEncode As Boolean)

[JScript] public function AddAttribute(key : HtmlTextWriterAttribute, value : String, fEncode : Boolean);

Description

Adds the HTML attribute associated with the **System.Web.UI.HtmlTextWriterAttribute** value specified by the key parameter, the specified attribute value, and a value that indicates if the attribute and value should be HTML encoded to the **System.Web.UI.HtmlTextWriter** output stream. An **HtmlTextWriterAttribute** value that represents the HTML attribute. The value to assign to the HTML attribute. **true** to HTML encode the attribute and its value; otherwise, **false**.

AddAttribute

[C#] public virtual void AddAttribute(string name, string value, bool fEndode);

[C++] public: virtual void AddAttribute(String* name, String* value, bool fEndode);

[VB] Overridable Public Sub AddAttribute(ByVal name As String, ByVal value As String, ByVal fEndode As Boolean)

[JScript] public function AddAttribute(name : String, value : String, fEndode : Boolean);

Description

Adds the specified HTML attribute and value to the **HtmlTextWriter** output stream, with a value that indicates if the attribute and value should be HTML encoded. The HTML attribute to add. The value to assign to the HTML attribute. **true** to HTML encode the attribute and its value; otherwise, **false**.

AddAttribute

[C#] protected virtual void AddAttribute(string name, string value, HtmlTextWriterAttribute key);

[C++] protected: virtual void AddAttribute(String* name, String* value, HtmlTextWriterAttribute key);

[VB] Overridable Protected Sub AddAttribute(ByVal name As String, ByVal value As String, ByVal key As HtmlTextWriterAttribute)

[JScript] protected function AddAttribute(name : String, value : String, key : HtmlTextWriterAttribute);

Description

Adds the specified HTML attribute and its value, along with an **System.Web.UI.HtmlTextWriterAttribute** value, to the **HtmlTextWriter** output stream. The HTML attribute to add. The value to assign to the HTML attribute. An **HtmlTextWriterAttribute** value that represents the HTML attribute.

AddStyleAttribute

[C#] public virtual void AddStyleAttribute(HtmlTextWriterStyle key, string value);

[C++] public: virtual void AddStyleAttribute(HtmlTextWriterStyle key, String* value);

[VB] Overridable Public Sub AddStyleAttribute(ByVal key As HtmlTextWriterStyle, ByVal value As String)

[JScript] public function AddStyleAttribute(key : HtmlTextWriterStyle, value : String);

Description

Adds the HTML style attribute associated with the **System.Web.UI.HtmlTextWriterStyle** value specified by the *key* parameter and the attribute's value to the **System.Web.UI.HtmlTextWriter** output stream. An **HtmlTextWriterStyle** value that represents the HTML style attribute to add. The value to assign to the HTML attribute.

AddStyleAttribute

[C#] public virtual void AddStyleAttribute(string name, string value);
[C++] public: virtual void AddStyleAttribute(String* name, String* value);
[VB] Overridable Public Sub AddStyleAttribute(ByVal name As String, ByVal value As String)
[JScript] public function AddStyleAttribute(name : String, value : String); Adds an HTML style attribute to the to the **System.Web.UI.HtmlTextWriter** output stream.

Description

Adds the specified HTML style attribute and its value to the **System.Web.UI.HtmlTextWriter** output stream. The HTML style attribute to add. The value assigned to the HTML style attribute.

AddStyleAttribute

[C#] protected virtual void AddStyleAttribute(string name, string value, HtmlTextWriterStyle key);
[C++] protected: virtual void AddStyleAttribute(String* name, String* value, HtmlTextWriterStyle key);
[VB] Overridable Protected Sub AddStyleAttribute(ByVal name As String, ByVal value As String, ByVal key As HtmlTextWriterStyle)
[JScript] protected function AddStyleAttribute(name : String, value : String, key : HtmlTextWriterStyle);

Description

Adds the specified HTML style attribute, along with its value, to the **System.Web.UI.HtmlTextWriter** output stream. The HTML style attribute to add to the output stream. The value to assign to the HTML attribute. An **System.Web.UI.HtmlTextWriterStyle** value that represents the HTML style attribute to add.

Close

```
[C#] public override void Close();
[C++] public: void Close();
[VB] Overrides Public Sub Close()
[JScript] public override function Close();
```

Description

Closes the current **System.Web.UI.HtmlTextWriter** and releases any system resources associated with it.

This implementation of **Close** calls the **System.IO.TextWriter** method passing a **true** value.

EncodeAttributeValue

```
[C#] protected virtual string EncodeAttributeValue(HtmlTextWriterAttribute attrKey, string value);
[C++] protected: virtual String* EncodeAttributeValue(HtmlTextWriterAttribute attrKey, String* value);
[VB] Overridable Protected Function EncodeAttributeValue(ByVal attrKey As HtmlTextWriterAttribute, ByVal value As String) As String
```

[JScript] protected function EncodeAttributeValue(attrKey : HtmlTextWriterAttribute, value : String) : String;

Description

HTML encodes the specified HTML attribute's value. *Return Value:* The encoded attribute value. An **System.Web.UI.HtmlTextWriterAttribute** value representing the HTML attribute to which the *value* parameter is assigned. The value assigned to the specified HTML attribute.

EncodeAttributeValue

[C#] protected string EncodeAttributeValue(string value, bool fEncode); [C++] protected: String* EncodeAttributeValue(String* value, bool fEncode); [VB] Protected Function EncodeAttributeValue(ByVal value As String, ByVal fEncode As Boolean) As String [JScript] protected function EncodeAttributeValue(value : String, fEncode : Boolean) : String; HTML encodes the specified HTML attribute's value.

Description

HTML encodes the specified HTML attribute's value. *Return Value:* The HTML-encoded attribute value, **null** if the *value* parameter is empty, or the unencoded attribute value if *fEncode* is **false** . The attribute value to encode. **true** to HTML encode the attribute value; otherwise, **false.**

EncodeUrl

[C#] protected string EncodeUrl(string url);
[C++] protected: String* EncodeUrl(String* url);
[VB] Protected Function EncodeUrl(ByVal url As String) As String
[JScript] protected function EncodeUrl(url : String) : String;

Description

Performs minimal URL encoding by converting spaces passed in the *url* parameter to "%20".

Return Value: The encoded URL. The URL to be encoded.

FilterAttributes

[C#] protected virtual void FilterAttributes();
[C++] protected: virtual void FilterAttributes();
[VB] Overridable Protected Sub FilterAttributes()
[JScript] protected function FilterAttributes();

Description

Renders all HTML attributes and style attributes by calling **System.Web.UI.HtmlTextWriter.OnAttributeRender(System.String,System.String,System.Web.UI.HtmlTextWriterAttribute)** and **System.Web.UI.HtmlTextWriter.OnStyleAttributeRender(System.String,System.String,System.Web.UI.HtmlTextWriterStyle)** on all properites of the page or ASP.NET server control.

Flush

```
[C#] public override void Flush();
[C++] public: void Flush();
[VB] Overrides Public Sub Flush()
[JScript] public override function Flush();
```

Description

Clears all buffers for the current **System.Web.UI.HtmlTextWriter** and causes any buffered data to be written to the text stream.

GetAttributeKey

```
[C#] protected HtmlTextWriterAttribute GetAttributeKey(string attrName);
[C++] protected: HtmlTextWriterAttribute GetAttributeKey(String* attrName);
[VB] Protected Function GetAttributeKey(ByVal attrName As String) As
HtmlTextWriterAttribute
[JScript] protected function GetAttributeKey(attrName : String) :
HtmlTextWriterAttribute;
```

Description

Obtains the corresponding **System.Web.UI.HtmlTextWriterAttribute** enumeration value for the specified HTML attribute. *Return Value:* The **HtmlTextWriterAttribute** enumeration value for the specified HTML attribute. The HTML attribute to obtain the **HtmlTextWriterAttribute** value for.

GetAttributeName

[C#] protected string GetAttributeName(HtmlTextWriterAttribute attrKey);

[C++] protected: String* GetAttributeName(HtmlTextWriterAttribute attrKey);

[VB] Protected Function GetAttributeName(ByVal attrKey As HtmlTextWriterAttribute) As String

[JScript] protected function GetAttributeName(attrKey : HtmlTextWriterAttribute) : String;

Description

Obtains the name of the HTML attribute associated with the specified **System.Web.UI.HtmlTextWriterAttribute** value.

Return Value: The name of the HTML attribute. The **HtmlTextWriterAttribute** to obtain the HTML attribute name for.

GetStyleKey

[C#] protected HtmlTextWriterStyle GetStyleKey(string styleName);

[C++] protected: HtmlTextWriterStyle GetStyleKey(String* styleName);

[VB] Protected Function GetStyleKey(ByVal styleName As String) As HtmlTextWriterStyle

[JScript] protected function GetStyleKey(styleName : String) : HtmlTextWriterStyle;

Description

Obtains the **System.Web.UI.HtmlTextWriterStyle** enumeration value for the specified HMTL style.

Return Value: The **HtmlTextWriterStyle** value. The HTML style attribute to obtain the **HtmlTextWriterStyle** value for.

GetStyleName

[C#] protected string GetStyleName(HtmlTextWriterStyle styleKey);

[C++] protected: String* GetStyleName(HtmlTextWriterStyle styleKey);

[VB] Protected Function GetStyleName(ByVal styleKey As HtmlTextWriterStyle) As String

[JScript] protected function GetStyleName(styleKey : HtmlTextWriterStyle) : String;

Description

Obtains the HTML style attribute associated with the specified **System.Web.UI.HtmlTextWriterStyle** enumeration value. *Return Value:* The HTML style attribute. The **HtmlTextWriterStyle** value to obtain the HTML style attribute for.

GetTagKey

[C#] protected virtual HtmlTextWriterTag GetTagKey(string tagName);

[C++] protected: virtual HtmlTextWriterTag GetTagKey(String* tagName);

[VB] Overridable Protected Function GetTagKey(ByVal tagName As String) As HtmlTextWriterTag

[JScript] protected function GetTagKey(tagName : String) : HtmlTextWriterTag;

Description

Obtains the **System.Web.UI.HtmlTextWriterTag** enumeration value associated with the specified HTML element. *Return Value:* The **HtmlTextWriterTag** value; if the *tagName* parameter is not associated with a specific **HtmlTextWriterTag** value, **HtmlTextWriterTag.Unknown** is returned. The HTML element to obtain the **HtmlTextWriterTag** value for.

GetTagName

[C#] protected virtual string GetTagName(HtmlTextWriterTag tagKey);

[C++] protected: virtual String* GetTagName(HtmlTextWriterTag tagKey);

[VB] Overridable Protected Function GetTagName(ByVal tagKey As HtmlTextWriterTag) As String

[JScript] protected function GetTagName(tagKey : HtmlTextWriterTag) : String;

Description

Obtains the HTML element associated with the specified **System.Web.UI.HtmlTextWriterTag** enumeration value. *Return Value:* The HTML element. The **HtmlTextWriterTag** value to obtain the HTML element for.

IsAttributeDefined

[C#] protected bool IsAttributeDefined(HtmlTextWriterAttribute key);

[C++] protected: bool IsAttributeDefined(HtmlTextWriterAttribute key);

[VB] Protected Function IsAttributeDefined(ByVal key As HtmlTextWriterAttribute) As Boolean

[JScript] protected function IsAttributeDefined(key : HtmlTextWriterAttribute) : Boolean; Determines whether an HTML attribute is recognized as one of the **System.Web.UI.HtmlTextWriterAttribute** values.

Description

Determines whether the specified HTML attribute is recognized. *Return Value:* **true** if the HTML attribute is associated with one of the **HtmlTextWriterAttribute** values; otherwise, **false** . The **System.Web.UI.HtmlTextWriterAttribute** associated with the HTML attribute.

IsAttributeDefined

[C#] protected bool IsAttributeDefined(HtmlTextWriterAttribute key, out string value);

[C++] protected: bool IsAttributeDefined(HtmlTextWriterAttribute key, String** value);

[VB] Protected Function IsAttributeDefined(ByVal key As HtmlTextWriterAttribute, ByRef value As String) As Boolean

[JScript] protected function IsAttributeDefined(key : HtmlTextWriterAttribute, value : String) : Boolean;

Description

Determines whether the specified HTML attribute is recognized. *Return Value:* **true** if the HTML attribute is associated with one of the **HtmlTextWriterAttribute** values; otherwise, **false** . The

System.Web.UI.HtmlTextWriterAttribute associated with the HTML attribute. The value assigned to the HTML attribute.

IsStyleAttributeDefined

[C#] protected bool IsStyleAttributeDefined(HtmlTextWriterStyle key);
[C++] protected: bool IsStyleAttributeDefined(HtmlTextWriterStyle key);
[VB] Protected Function IsStyleAttributeDefined(ByVal key As HtmlTextWriterStyle) As Boolean
[JScript] protected function IsStyleAttributeDefined(key : HtmlTextWriterStyle) : Boolean; Determines whether an HTML style attribute is recognized as one of the **System.Web.UI.HtmlTextWriterStyle** values.

Description

Determines whether the specified HTML style attribute is recognized. *Return Value:* **true** if the HTML attribute is associated with one of the **HtmlTextWriterStyle** values; otherwise, **false** . The **System.Web.UI.HtmlTextWriterStyle** value associated with the HTML attribute.

IsStyleAttributeDefined

[C#] protected bool IsStyleAttributeDefined(HtmlTextWriterStyle key, out string value);
[C++] protected: bool IsStyleAttributeDefined(HtmlTextWriterStyle key, String** value);
[VB] Protected Function IsStyleAttributeDefined(ByVal key As

HtmlTextWriterStyle, ByRef value As String) As Boolean
[JScript] protected function IsStyleAttributeDefined(key : HtmlTextWriterStyle, value : String) : Boolean;

Description

Determines whether the specified HTML style attribute is recognized. *Return Value:* **true** if the HTML attribute is associated with one of the **HtmlTextWriterStyle** values; otherwise, **false** . The **System.Web.UI.HtmlTextWriterStyle** value associated with the HTML attribute. The value assigned to the HTML style attribute.

OnAttributeRender

[C#] protected virtual bool OnAttributeRender(string name, string value, HtmlTextWriterAttribute key);
[C++] protected: virtual bool OnAttributeRender(String* name, String* value, HtmlTextWriterAttribute key);
[VB] Overridable Protected Function OnAttributeRender(ByVal name As String, ByVal value As String, ByVal key As HtmlTextWriterAttribute) As Boolean
[JScript] protected function OnAttributeRender(name : String, value : String, key : HtmlTextWriterAttribute) : Boolean;

Description

Determines whether the specified HTML attribute and its value have been rendered to the requesting page. *Return Value:* **true** if the attribute has been rendered to the page; otherwise, **false** .

The HTML attribute to render. The value that is assinged to the HTML attribute. The **System.Web.UI.HtmlTextWriterAttribute** enumeration value associated with the HTML attribute.

OnStyleAttributeRender

[C#] protected virtual bool OnStyleAttributeRender(string name, string value, HtmlTextWriterStyle - key);
[C++] protected: virtual bool OnStyleAttributeRender(String* name, String* value, HtmlTextWriterStyle key);
[VB] Overridable Protected Function OnStyleAttributeRender(ByVal name As String, ByVal value As String, ByVal key As HtmlTextWriterStyle) As Boolean
[JScript] protected function OnStyleAttributeRender(name : String, value : String, key : HtmlTextWriterStyle) : Boolean;

Description

Determines whether the specified HTML style attribute and its value have been rendered to the requesting page. *Return Value:* **true** if the HTML style attribute has been rendered to the page; otherwise, **false** . The HTML style attribute to render. The value that is assinged to the HTML style attribute. The **System.Web.UI.HtmlTextWriterStyle** enumeration value associated with the HTML style attribute.

OnTagRender

[C#] protected virtual bool OnTagRender(string name, HtmlTextWriterTag key);
[C++] protected: virtual bool OnTagRender(String* name, HtmlTextWriterTag

key);

[VB] Overridable Protected Function OnTagRender(ByVal name As String, ByVal key As HtmlTextWriterTag) As Boolean

[JScript] protected function OnTagRender(name : String, key : HtmlTextWriterTag) : Boolean;

Description

Determines whether the specified HTML element has been rendered to the requesting page.

Return Value: **true** if if the HTML element has been rendered to the page; otherwise, **false** . The HTML element to render. The **System.Web.UI.HtmlTextWriterTag** enumeration valule associated with the HTML element.

OutputTabs

[C#] protected virtual void OutputTabs();

[C++] protected: virtual void OutputTabs();

[VB] Overridable Protected Sub OutputTabs()

[JScript] protected function OutputTabs();

Description

Writes a series of blank characters that represent the tab spacing for a line of HTML characters.

This method uses the integer passed to the **System.Web.UI.HtmlTextWriter.Indent** property to determine how many spaces to write for the tab spacing.

PopEndTag

[C#] protected string PopEndTag();

[C++] protected: String* PopEndTag();

[VB] Protected Function PopEndTag() As String

[JScript] protected function PopEndTag() : String;

Description

Retrieves the appropriate closing tag for the HTML element to render to the page.

Return Value: The appropriate closing tag for the HTML element.

PushEndTag

[C#] protected void PushEndTag(string endTag);

[C++] protected: void PushEndTag(String* endTag);

[VB] Protected Sub PushEndTag(ByVal endTag As String)

[JScript] protected function PushEndTag(endTag : String);

Description

Associates the specifed closing tag of an HTML element with the approprite HTML text. The closing tag to be associated.

RegisterAttribute

[C#] protected static void RegisterAttribute(string name, HtmlTextWriterAttribute key);

[C++] protected: static void RegisterAttribute(String* name, HtmlTextWriterAttribute key);

[VB] Protected Shared Sub RegisterAttribute(ByVal name As String, ByVal key As HtmlTextWriterAttribute)

[JScript] protected static function RegisterAttribute(name : String, key : HtmlTextWriterAttribute);

Description

Registers HTML attributes, whether literals or dynamically generated, from the source file so that they can be properly rendered to the requesting client. The HTML attribute to be registered. An **System.Web.UI.HtmlTextWriterAttribute** value that corresponds to the attribute name.

RegisterStyle

[C#] protected static void RegisterStyle(string name, HtmlTextWriterStyle key);

[C++] protected: static void RegisterStyle(String* name, HtmlTextWriterStyle key);

[VB] Protected Shared Sub RegisterStyle(ByVal name As String, ByVal key As HtmlTextWriterStyle)

[JScript] protected static function RegisterStyle(name : String, key : HtmlTextWriterStyle);

Description

Registers HTML style properties, whether literals or dynamically generated, from the source file so that they can be properly rendered to the requesting client. The **System.String** passed from the source file specifying the style name. The **System.Web.UI.HtmlTextWriterStyle** value that corresponds to the specified style.

RegisterTag

[C#] protected static void RegisterTag(string name, HtmlTextWriterTag key);
[C++] protected: static void RegisterTag(String* name, HtmlTextWriterTag key);
[VB] Protected Shared Sub RegisterTag(ByVal name As String, ByVal key As HtmlTextWriterTag)
[JScript] protected static function RegisterTag(name : String, key : HtmlTextWriterTag);

Description

Registers HTML tags, whether literals or dynamically generated, from the source file so that they can be properly rendered to the requesting client. A **System.String** that contains the HTML tag. An **System.Web.UI.HtmlTextWriterTag** value that specifies which element is to be rendered.

RenderAfterContent

[C#] protected virtual string RenderAfterContent();

[C++] protected: virtual String* RenderAfterContent();
[VB] Overridable Protected Function RenderAfterContent() As String
[JScript] protected function RenderAfterContent() : String;

Description

Writes any text or spacing that occurs after the content of the HTML element to the **System.Web.UI.HtmlTextWriter** output stream. *Return Value:* The spacing or text to write prior to the content of the HTML element. If not overridden, this method returns **null** .

RenderAfterTag

[C#] protected virtual string RenderAfterTag();
[C++] protected: virtual String* RenderAfterTag();
[VB] Overridable Protected Function RenderAfterTag() As String
[JScript] protected function RenderAfterTag() : String;

Description

Writes any spacing or text that occurs after an HTML element's closing tag. *Return Value:* The spacing or text to write after the closing tag of the HTML element. If not overridden, this method returns **null** .

RenderBeforeContent

[C#] protected virtual string RenderBeforeContent();
[C++] protected: virtual String* RenderBeforeContent();
[VB] Overridable Protected Function RenderBeforeContent() As String

[JScript] protected function RenderBeforeContent() : String;

Description

Writes any tab spacing before the content contained in an HTML element. *Return Value:* The spacing to write prior to the content of the HTML element. If not overridden, this method returns **null** .

RenderBeforeTag

[C#] protected virtual string RenderBeforeTag();
[C++] protected: virtual String* RenderBeforeTag();
[VB] Overridable Protected Function RenderBeforeTag() As String
[JScript] protected function RenderBeforeTag() : String;

Description

Writes any text or tab spacing that occurs before the opening tag of an HTML element to the **System.Web.UI.HtmlTextWriter** output stream. *Return Value:* The text or tab spacing to write to the output stream. If not overridden, this method returns **null** .

RenderBeginTag

[C#] public virtual void RenderBeginTag(HtmlTextWriterTag tagKey);
[C++] public: virtual void RenderBeginTag(HtmlTextWriterTag tagKey);
[VB] Overridable Public Sub RenderBeginTag(ByVal tagKey As HtmlTextWriterTag)
[JScript] public function RenderBeginTag(tagKey : HtmlTextWriterTag);

Description

Writes the opening tag of the HTML element associated with the specified **System.Web.UI.HtmlTextWriterTag** enumeration value to the output stream. An **HtmlTextWriterTag** value that defines the opening tag of the HTML element to render.

RenderBeginTag

[C#] public virtual void RenderBeginTag(string tagName);
[C++] public: virtual void RenderBeginTag(String* tagName);
[VB] Overridable Public Sub RenderBeginTag(ByVal tagName As String)
[JScript] public function RenderBeginTag(tagName : String); Writes the opening tag of an HTML element to the **System.Web.UI.HtmlTextWriter** output stream.

Description

Writes the opening tag of the specified HTML element to the output stream. The HTML element to render the opening tag for.

RenderEndTag

[C#] public virtual void RenderEndTag();
[C++] public: virtual void RenderEndTag();
[VB] Overridable Public Sub RenderEndTag()
[JScript] public function RenderEndTag();

Description

Writes the end tag of an HTML element to the **System.Web.UI.HtmlTextWriter** output stream.

Write

```
[C#] public override void Write(bool value);
[C++] public: void Write(bool value);
[VB] Overrides Public Sub Write(ByVal value As Boolean)
[JScript] public override function Write(value : Boolean);
```

Description

Writes the text representation of a **Boolean** value to the text stream, along with any specified tab spacing. The **Boolean** value to be written to the text stream.

Write

```
[C#] public override void Write(char value);
[C++] public: void Write(__wchar_t value);
[VB] Overrides Public Sub Write(ByVal value As Char)
[JScript] public override function Write(value : Char);
```

Description

Writes a unicode character to the text stream, along with any specified tab spacing. The unicode character to write to the text stream.

Write

```
[C#] public override void Write(char[] buffer);
```

[C++] public: void Write(__wchar_t buffer __gc[]);
[VB] Overrides Public Sub Write(ByVal buffer() As Char)
[JScript] public override function Write(buffer : Char[]);

Description

Writes a character array to the text stream, along with any specified tab spacing. The character array to write to the text stream.

Write

[C#] public override void Write(double value);
[C++] public: void Write(double value);
[VB] Overrides Public Sub Write(ByVal value As Double)
[JScript] public override function Write(value : double);

Description

Writes the text representation of a double-precision floating point number to the HTML text stream, along with any specified tab spacing. The double-precision floating point number to write to the text stream.

Write

[C#] public override void Write(int value);
[C++] public: void Write(int value);
[VB] Overrides Public Sub Write(ByVal value As Integer)
[JScript] public override function Write(value : int);

Description

Writes the text representation of a 32-byte signed integer to the text stream, along with any specified tab spacing. The 32-byte signed integer to write to the text stream.

Write

```
[C#] public override void Write(long value);
[C++] public: void Write(__int64 value);
[VB] Overrides Public Sub Write(ByVal value As Long)
[JScript] public override function Write(value : long);
```

Description

Writes the text representation of an 64-byte signed integer to the text stream, along with any specified tab spacing. The 64-byte signed integer to write to the text stream.

Write

```
[C#] public override void Write(object value);
[C++] public: void Write(Object* value);
[VB] Overrides Public Sub Write(ByVal value As Object)
[JScript] public override function Write(value : Object);
```

Description

Writes the text representation of an **System.Object** to the text stream, along with any specified tab spacing. The **Object** to write to the text stream.

Write

[C#] public override void Write(float value);
[C++] public: void Write(float value);
[VB] Overrides Public Sub Write(ByVal value As Single)
[JScript] public override function Write(value : float);

Description

Writes the text representation of a single-precision floating point number to the HTML text stream, along with any specified tab spacing. The single-precision floating point number to write to the text stream.

Write

[C#] public override void Write(string s);
[C++] public: void Write(String* s);
[VB] Overrides Public Sub Write(ByVal s As String)
[JScript] public override function Write(s : String); Writes the given data type to an HTML text stream to be rendered to an ASP.NET page.

Description

Writes the specified string to the text stream, along with any specified tab spacing. A **System.String** to be written to the text stream.

Write

[C#] public override void Write(string format, object arg0);
[C++] public: void Write(String* format, Object* arg0);
[VB] Overrides Public Sub Write(ByVal format As String, ByVal arg0 As Object)
[JScript] public override function Write(format : String, arg0 : Object);

Description

Writes a tab string and a formatted string to the HTML text stream, using the same semantics as **System.String.Format(System.String,System.Object)** . The formatting string. An object to write into the formatted string.

Write

[C#] public override void Write(string format, params object[] arg);
[C++] public: void Write(String* format, Object* arg __gc[]);
[VB] Overrides Public Sub Write(ByVal format As String, ByVal ParamArray arg() As Object)
[JScript] public override function Write(format : String, arg : Object[]);

Description

Writes a tab string and a formatted string to the HTML text stream, using the same semantics as **System.String.Format(System.String,System.Object)** . The formatting string. The object array to write into the formatted string.

Write

[C#] public override void Write(char[] buffer, int index, int count);

[C++] public: void Write(__wchar_t buffer __gc[], int index, int count);
[VB] Overrides Public Sub Write(ByVal buffer() As Char, ByVal index As Integer, ByVal count As Integer)
[JScript] public override function Write(buffer : Char[], index : int, count : int);

Description

Writes a subarray of characters to the text stream, along with any specified tab spacing. The array of characters from which the subarray is written to the text stream. The index location in the array where writing begins. The number of characters to be written to the text stream.

Write

[C#] public override void Write(string format, object arg0, object arg1);
[C++] public: void Write(String* format, Object* arg0, Object* arg1);
[VB] Overrides Public Sub Write(ByVal format As String, ByVal arg0 As Object, ByVal arg1 As Object)
[JScript] public override function Write(format : String, arg0 : Object, arg1 : Object);

Description

Writes a tab string and a formatted string to the HTML text stream, using the same semantics as **System.String.Format(System.String,System.Object)** . The formatting string. An object to write into the formatted string. An object to write into the formatted string.

WriteAttribute

[C#] public virtual void WriteAttribute(string name, string value);
[C++] public: virtual void WriteAttribute(String* name, String* value);
[VB] Overridable Public Sub WriteAttribute(ByVal name As String, ByVal value As String)
[JScript] public function WriteAttribute(name : String, value : String); Writes an HTML attribute and its value to the **System.Web.UI.HtmlTextWriter** output stream.

Description

Writes the specified HTML attribute and value to the **System.Web.UI.HtmlTextWriter** output stream. The HTML attribute to write to the output stream. The value assigned to the HTML attribute.

WriteAttribute

[C#] public virtual void WriteAttribute(string name, string value, bool fEncode);
[C++] public: virtual void WriteAttribute(String* name, String* value, bool fEncode);
[VB] Overridable Public Sub WriteAttribute(ByVal name As String, ByVal value As String, ByVal fEncode As Boolean)
[JScript] public function WriteAttribute(name : String, value : String, fEncode : Boolean);

Description

Writes the specified HTML attribute and value to the **System.Web.UI.HtmlTextWriter** output stream and HTML encodes them if specified in the *fEncode* parameter. The HTML attribute to write to the output stream. The value assigned to the HTML attribute. **true** to HTML encode the attribute and its assigned value; otherwise, **false**.

WriteBeginTag

```
[C#] public virtual void WriteBeginTag(string tagName);
[C++] public: virtual void WriteBeginTag(String* tagName);
[VB] Overridable Public Sub WriteBeginTag(ByVal tagName As String)
[JScript] public function WriteBeginTag(tagName : String);
```

Description

Writes any tab spacing and the opening tag of the specified HTML element to the **System.Web.UI.HtmlTextWriter** output stream.

This method does not write the closing character (>) of the HTML element's opening tag. Use this method with the **System.Web.UI.HtmlTextWriter.SelfClosingTagEnd** constant when you write HTML elements that are self closing. The HTML element to write the opening tag of.

WriteEndTag

```
[C#] public virtual void WriteEndTag(string tagName);
[C++] public: virtual void WriteEndTag(String* tagName);
[VB] Overridable Public Sub WriteEndTag(ByVal tagName As String)
```

[JScript] public function WriteEndTag(tagName : String);

Description

Writes any tab spacing and the closing tag of the specified HTML element. The HTML element to write the closing tag for.

WriteFullBeginTag

[C#] public virtual void WriteFullBeginTag(string tagName);
[C++] public: virtual void WriteFullBeginTag(String* tagName);
[VB] Overridable Public Sub WriteFullBeginTag(ByVal tagName As String)
[JScript] public function WriteFullBeginTag(tagName : String);

Description

Writes any tab spacing and the opening tag of the specified HTML element to the **System.Web.UI.HtmlTextWriter** output stream.

This method automatically writes the closing character (>) of the opening tag of the HTML element. The HTML element to write.

WriteLine

[C#] public override void WriteLine();
[C++] public: void WriteLine();
[VB] Overrides Public Sub WriteLine()
[JScript] public override function WriteLine();

Description

Writes a line terminator to the HTML text stream.

WriteLine

```
[C#] public override void WriteLine(bool value);
[C++] public: void WriteLine(bool value);
[VB] Overrides Public Sub WriteLine(ByVal value As Boolean)
[JScript] public override function WriteLine(value : Boolean);
```

Description

Writes a tab string and the text representation of a **Boolean** followed by a line terminator to the HTML text stream. The **Boolean** to be written to the text stream.

WriteLine

```
[C#] public override void WriteLine(char value);
[C++] public: void WriteLine(__wchar_t value);
[VB] Overrides Public Sub WriteLine(ByVal value As Char)
[JScript] public override function WriteLine(value : Char);
```

Description

Writes a tab string and a character followed by a line terminator to the HTML text stream. The character to be written to the text stream.

WriteLine

```
[C#] public override void WriteLine(char[] buffer);
```

```
[C++] public: void WriteLine(__wchar_t buffer __gc[]);
[VB] Overrides Public Sub WriteLine(ByVal buffer() As Char)
[JScript] public override function WriteLine(buffer : Char[]);
```

Description

Writes a tab string and a character array followed by a line terminator to the HTML text stream. The character array to be written to the text stream.

WriteLine

```
[C#] public override void WriteLine(double value);
[C++] public: void WriteLine(double value);
[VB] Overrides Public Sub WriteLine(ByVal value As Double)
[JScript] public override function WriteLine(value : double);
```

Description

Writes a tab string and the text representation of an 8-byte floating-point value, followed by a line terminator, to the HTML text stream. The 8-byte floating-point value to write to the text stream.

WriteLine

```
[C#] public override void WriteLine(int value);
[C++] public: void WriteLine(int value);
[VB] Overrides Public Sub WriteLine(ByVal value As Integer)
[JScript] public override function WriteLine(value : int);
```

Description

Writes a tab string and the text representation of an 32-byte signed integer, followed by a line terminator, to the HTML text stream. The 32-byte signed integer to write to the text stream.

WriteLine

[C#] public override void WriteLine(long value);
[C++] public: void WriteLine(__int64 value);
[VB] Overrides Public Sub WriteLine(ByVal value As Long)
[JScript] public override function WriteLine(value : long);

Description

Writes a tab string and the text representation of an 64-byte signed integer, followed by a line terminator, to the HTML text stream. The 64-byte signed integer to write to the text stream.

WriteLine

[C#] public override void WriteLine(object value);
[C++] public: void WriteLine(Object* value);
[VB] Overrides Public Sub WriteLine(ByVal value As Object)
[JScript] public override function WriteLine(value : Object);

Description

Writes any tab strings and the text representation of an **System.Object** , followed by a line terminator, to the HTML text stream. The **Object** to write to the text stream.

WriteLine

[C#] public override void WriteLine(float value);
[C++] public: void WriteLine(float value);
[VB] Overrides Public Sub WriteLine(ByVal value As Single)
[JScript] public override function WriteLine(value : float);

Description

Writes a tab string and the text representation of a single-precision floating point number, followed by a line terminator, to the HTML text stream. The single-precision floating point number to write to the text string.

WriteLine

[C#] public override void WriteLine(string s);
[C++] public: void WriteLine(String* s);
[VB] Overrides Public Sub WriteLine(ByVal s As String)
[JScript] public override function WriteLine(s : String); Writes some data to an HTML text stream as specified by the overloaded parameters, followed by a line terminator. All instances of this method write tab strings to the text stream.

Description

Writes a tab string and a **System.String** followed by a line terminator to an HTML text stream. The **String** to write to the text stream.

WriteLine

[C#] public override void WriteLine(uint value);
[C++] public: void WriteLine(unsigned int value);
[VB] Overrides Public Sub WriteLine(ByVal value As UInt32)
[JScript] public override function WriteLine(value : UInt32);

Description

Writes any tab strings and the text representation of a 4-byte unsigned integer followed by a line terminator to the HTML text stream. The 4-byte unsigned integer to write.

WriteLine

[C#] public override void WriteLine(string format, object arg0);
[C++] public: void WriteLine(String* format, Object* arg0);
[VB] Overrides Public Sub WriteLine(ByVal format As String, ByVal arg0 As Object)
[JScript] public override function WriteLine(format : String, arg0 : Object);

Description

Writes any tab strings and a formatted string, followed by a line terminator, to the HTML text stream. The method uses the same semantics as

System.String.Format(System.String,System.Object) . The formatting string. The object to write into the formatted string.

WriteLine

[C#] public override void WriteLine(string format, params object[] arg);
[C++] public: void WriteLine(String* format, Object* arg __gc[]);
[VB] Overrides Public Sub WriteLine(ByVal format As String, ByVal ParamArray arg() As Object)
[JScript] public override function WriteLine(format : String, arg : Object[]);

Description

Writes any tab strings and a formatted string, followed by a line terminator, to the HTML text stream. The method uses the same semantics as **System.String.Format(System.String,System.Object)** . The formatting string. The array of objects to write into the formatted string.

WriteLine

[C#] public override void WriteLine(char[] buffer, int index, int count);
[C++] public: void WriteLine(__wchar_t buffer __gc[], int index, int count);
[VB] Overrides Public Sub WriteLine(ByVal buffer() As Char, ByVal index As Integer, ByVal count As Integer)
[JScript] public override function WriteLine(buffer : Char[], index : int, count : int);

Description

Writes a tab string and a subarray of characters followed by a line terminator to the HTML text stream. The character array from which to write to the text stream. The location in the character array where writing begins. The number of characters in the array to write to the text stream.

WriteLine

[C#] public override void WriteLine(string format, object arg0, object arg1);
[C++] public: void WriteLine(String* format, Object* arg0, Object* arg1);
[VB] Overrides Public Sub WriteLine(ByVal format As String, ByVal arg0 As Object, ByVal arg1 As Object)
[JScript] public override function WriteLine(format : String, arg0 : Object, arg1 : Object);

Description

Writes any tab strings and a formatted string, followed by a line terminator, to the HTML text stream. The method uses the same semantics as **System.String.Format(System.String,System.Object)** . The formatting string. An object to write into the formatted string. An object to write into the formatted string.

WriteLineNoTabs

[C#] public void WriteLineNoTabs(string s);
[C++] public: void WriteLineNoTabs(String* s);
[VB] Public Sub WriteLineNoTabs(ByVal s As String)
[JScript] public function WriteLineNoTabs(s : String);

Description

Writes a **System.String** followed by a line terminator to an HTML text stream. This method ignores any specified tab spacing. The **String** to write to the HTML text stream.

WriteStyleAttribute

[C#] public virtual void WriteStyleAttribute(string name, string value);
[C++] public: virtual void WriteStyleAttribute(String* name, String* value);
[VB] Overridable Public Sub WriteStyleAttribute(ByVal name As String, ByVal value As String)
[JScript] public function WriteStyleAttribute(name : String, value : String); Writes an HTML style attribute and its value to the **System.Web.UI.HtmlTextWriter** output stream.

Description

Writes the specified HTML style attribute to the **System.Web.UI.HtmlTextWriter** ouput stream. The HTML style attribute to write to the output stream. The value assigned to the HTML style attribute.

WriteStyleAttribute

[C#] public virtual void WriteStyleAttribute(string name, string value, bool fEncode);
[C++] public: virtual void WriteStyleAttribute(String* name, String* value, bool fEncode);

[VB] Overridable Public Sub WriteStyleAttribute(ByVal name As String, ByVal value As String, ByVal fEncode As Boolean)
[JScript] public function WriteStyleAttribute(name : String, value : String, fEncode : Boolean);

Description

Writes the specified HTML attribute and value to the **System.Web.UI.HtmlTextWriter** output stream and HTML encodes them if specified in the *fEncode* parameter. The HTML style attribute to write to the output stream. The value assigned to the HTML style attribute. **true** to HTML encode the style attribute and its assigned value; otherwise, **false**.

HtmlTextWriterAttribute enumeration (System.Web.UI)

WriteStyleAttribute

Description

Specifies the HTML attributes that an **System.Web.UI.HtmlTextWriter** or **System.Web.UI.Html32TextWriter** object writes to the opening tag of an HTML element when a Web request is processed.

WriteStyleAttribute

[C#] public const HtmlTextWriterAttribute Accesskey;
[C++] public: const HtmlTextWriterAttribute Accesskey;
[VB] Public Const Accesskey As HtmlTextWriterAttribute
[JScript] public var Accesskey : HtmlTextWriterAttribute;

Description

Specifies that the HTML **acesskey** attribute should be written to the tag.

WriteStyleAttribute

```
[C#]       public      const     HtmlTextWriterAttribute     Align;
[C++]      public:     const     HtmlTextWriterAttribute     Align;
[VB]       Public      Const     Align    As    HtmlTextWriterAttribute
[JScript]  public      var       Align    :     HtmlTextWriterAttribute;
```

Description

Specifies that the HTML **align** attribute should be written to the tag.

WriteStyleAttribute

```
[C#]       public      const     HtmlTextWriterAttribute     Alt;
[C++]      public:     const     HtmlTextWriterAttribute     Alt;
[VB]       Public      Const     Alt      As    HtmlTextWriterAttribute
[JScript]  public      var       Alt      :     HtmlTextWriterAttribute;
```

Description

Specifies that the HTML **alt** attribute should be written to the tag.

WriteStyleAttribute

```
[C#]       public      const     HtmlTextWriterAttribute     Background;
[C++]      public:     const     HtmlTextWriterAttribute     Background;
```

[VB] Public Const Background As HtmlTextWriterAttribute
[JScript] public var Background : HtmlTextWriterAttribute;

Description

Specifies that the HTML **background** attribute should be written to the tag. WriteStyleAttribute

[C#] public const HtmlTextWriterAttribute Bgcolor;
[C++] public: const HtmlTextWriterAttribute Bgcolor;
[VB] Public Const Bgcolor As HtmlTextWriterAttribute
[JScript] public var Bgcolor : HtmlTextWriterAttribute;

Description

Specifies that the HTML **bgcolor** attribute should be written to the tag. WriteStyleAttribute

[C#] public const HtmlTextWriterAttribute Border;
[C++] public: const HtmlTextWriterAttribute Border;
[VB] Public Const Border As HtmlTextWriterAttribute
[JScript] public var Border : HtmlTextWriterAttribute;

Description

Specifies that the HTML **border** attribute should be written to the tag. WriteStyleAttribute

```
[C#] public const HtmlTextWriterAttribute Bordercolor;
[C++] public: const HtmlTextWriterAttribute Bordercolor;
[VB] Public Const Bordercolor As HtmlTextWriterAttribute
[JScript] public var Bordercolor : HtmlTextWriterAttribute;
```

Description

Specifies that the HTML **bordercolor** attribute should be written to the tag. WriteStyleAttribute

```
[C#] public const HtmlTextWriterAttribute Cellpadding;
[C++] public: const HtmlTextWriterAttribute Cellpadding;
[VB] Public Const Cellpadding As HtmlTextWriterAttribute
[JScript] public var Cellpadding : HtmlTextWriterAttribute;
```

Description

Specifies that the HTML **cellpadding** attribute should be written to the tag. WriteStyleAttribute

```
[C#] public const HtmlTextWriterAttribute Cellspacing;
[C++] public: const HtmlTextWriterAttribute Cellspacing;
[VB] Public Const Cellspacing As HtmlTextWriterAttribute
[JScript] public var Cellspacing : HtmlTextWriterAttribute;
```

Description

Specifies that the HTML **cellspacing** attribute should be written to the tag. WriteStyleAttribute

```
[C#] public const HtmlTextWriterAttribute Checked;
[C++] public: const HtmlTextWriterAttribute Checked;
[VB] Public Const Checked As HtmlTextWriterAttribute
[JScript] public var Checked : HtmlTextWriterAttribute;
```

Description

Specifies that the HTML **checked** attribute should be written to the tag. WriteStyleAttribute

```
[C#] public const HtmlTextWriterAttribute Class;
[C++] public: const HtmlTextWriterAttribute Class;
[VB] Public Const Class As HtmlTextWriterAttribute
[JScript] public var Class : HtmlTextWriterAttribute;
```

Description

Specifies that the HTML **class** attribute should be written to the tag. WriteStyleAttribute

```
[C#] public const HtmlTextWriterAttribute Cols;
[C++] public: const HtmlTextWriterAttribute Cols;
[VB] Public Const Cols As HtmlTextWriterAttribute
[JScript] public var Cols : HtmlTextWriterAttribute;
```

Description

Specifies that the HTML **cols** attribute should be written to the tag.

WriteStyleAttribute

```
[C#] public const HtmlTextWriterAttribute Colspan;
[C++] public: const HtmlTextWriterAttribute Colspan;
[VB] Public Const Colspan As HtmlTextWriterAttribute
[JScript] public var Colspan : HtmlTextWriterAttribute;
```

Description

Specifies that the HTML **colspan** attribute should be written to the tag.

WriteStyleAttribute

```
[C#] public const HtmlTextWriterAttribute Disabled;
[C++] public: const HtmlTextWriterAttribute Disabled;
[VB] Public Const Disabled As HtmlTextWriterAttribute
[JScript] public var Disabled : HtmlTextWriterAttribute;
```

Description

Specifies that the HTML **disabled** attribute should be written to the tag.

WriteStyleAttribute

```
[C#] public const HtmlTextWriterAttribute For;
[C++] public: const HtmlTextWriterAttribute For;
```

```
[VB] Public Const For As HtmlTextWriterAttribute
[JScript] public var For : HtmlTextWriterAttribute;
```

Description

Specifies that the HTML **for** attribute should be written to the tag.

WriteStyleAttribute

```
[C#] public const HtmlTextWriterAttribute Height;
[C++] public: const HtmlTextWriterAttribute Height;
[VB] Public Const Height As HtmlTextWriterAttribute
[JScript] public var Height : HtmlTextWriterAttribute;
```

Description

Specifies that the HTML **height** attribute should be written to the tag.

WriteStyleAttribute

```
[C#] public const HtmlTextWriterAttribute Href;
[C++] public: const HtmlTextWriterAttribute Href;
[VB] Public Const Href As HtmlTextWriterAttribute
[JScript] public var Href : HtmlTextWriterAttribute;
```

Description

Specifies that the HTML **href** attribute should be written to the tag.

WriteStyleAttribute

```
[C#]        public      const      HtmlTextWriterAttribute         Id;
[C++]       public:     const      HtmlTextWriterAttribute         Id;
[VB]     Public    Const     Id     As     HtmlTextWriterAttribute
[JScript]     public     var     Id     :     HtmlTextWriterAttribute;
```

Description

Specifies that the HTML **id** attribute should be written to the tag.

WriteStyleAttribute

```
[C#]        public      const      HtmlTextWriterAttribute         Maxlength;
[C++]       public:     const      HtmlTextWriterAttribute         Maxlength;
[VB]     Public    Const     Maxlength     As     HtmlTextWriterAttribute
[JScript]     public     var     Maxlength     :     HtmlTextWriterAttribute;
```

Description

Specifies that the HTML **maxlength** attribute should be written to the tag.

WriteStyleAttribute

```
[C#]        public      const      HtmlTextWriterAttribute         Multiple;
[C++]       public:     const      HtmlTextWriterAttribute         Multiple;
[VB]     Public    Const     Multiple     As     HtmlTextWriterAttribute
[JScript]     public     var     Multiple     :     HtmlTextWriterAttribute;
```

Description

Specifies that the HTML **multiple** attribute should be written to the tag.

WriteStyleAttribute

```
[C#] public const HtmlTextWriterAttribute Name;
[C++] public: const HtmlTextWriterAttribute Name;
[VB] Public Const Name As HtmlTextWriterAttribute
[JScript] public var Name : HtmlTextWriterAttribute;
```

Description

Specifies that the HTML **name** attribute should be written to the tag.

WriteStyleAttribute

```
[C#] public const HtmlTextWriterAttribute Nowrap;
[C++] public: const HtmlTextWriterAttribute Nowrap;
[VB] Public Const Nowrap As HtmlTextWriterAttribute
[JScript] public var Nowrap : HtmlTextWriterAttribute;
```

Description

Specifies that the HTML **nowrap** attribute should be written to the tag.

WriteStyleAttribute

```
[C#] public const HtmlTextWriterAttribute Onchange;
[C++] public: const HtmlTextWriterAttribute Onchange;
[VB] Public Const Onchange As HtmlTextWriterAttribute
[JScript] public var Onchange : HtmlTextWriterAttribute;
```

Description

Specifies that the HTML **onchange** attribute should be written to the tag.

WriteStyleAttribute

```
[C#]      public    const    HtmlTextWriterAttribute    Onclick;
[C++]     public:   const    HtmlTextWriterAttribute    Onclick;
[VB]      Public    Const    Onclick    As    HtmlTextWriterAttribute
[JScript] public    var      Onclick    :     HtmlTextWriterAttribute;
```

Description

Specifies that the HTML **onclick** attribute should be written to the tag.

WriteStyleAttribute

```
[C#]      public    const    HtmlTextWriterAttribute    ReadOnly;
[C++]     public:   const    HtmlTextWriterAttribute    ReadOnly;
[VB]      Public    Const    ReadOnly    As    HtmlTextWriterAttribute
[JScript] public    var      ReadOnly    :     HtmlTextWriterAttribute;
```

Description

Specifies that the HTML **readonly** attribute should be written to the tag.

WriteStyleAttribute

```
[C#]      public    const    HtmlTextWriterAttribute    Rows;
[C++]     public:   const    HtmlTextWriterAttribute    Rows;
```

[VB] Public Const Rows As HtmlTextWriterAttribute

[JScript] public var Rows : HtmlTextWriterAttribute;

Description

Specifies that the HTML **rows** attribute should be written to the tag.

WriteStyleAttribute

[C#] public const HtmlTextWriterAttribute Rowspan;

[C++] public: const HtmlTextWriterAttribute Rowspan;

[VB] Public Const Rowspan As HtmlTextWriterAttribute

[JScript] public var Rowspan : HtmlTextWriterAttribute;

Description

Specifies that the HTML **rowspan** attribute should be written to the tag.

WriteStyleAttribute

[C#] public const HtmlTextWriterAttribute Rules;

[C++] public: const HtmlTextWriterAttribute Rules;

[VB] Public Const Rules As HtmlTextWriterAttribute

[JScript] public var Rules : HtmlTextWriterAttribute;

Description

Specifies that the HTML **rules** attribute should be written to the tag.

WriteStyleAttribute

[C#] public const HtmlTextWriterAttribute Selected;

[C++] public: const HtmlTextWriterAttribute Selected;

[VB] Public Const Selected As HtmlTextWriterAttribute

[JScript] public var Selected : HtmlTextWriterAttribute;

Description

Specifies that the HTML **selected** attribute should be written to the tag.

WriteStyleAttribute

[C#] public const HtmlTextWriterAttribute Size;

[C++] public: const HtmlTextWriterAttribute Size;

[VB] Public Const Size As HtmlTextWriterAttribute

[JScript] public var Size : HtmlTextWriterAttribute;

Description

Specifies that the HTML **size** attribute should be written to the tag.

WriteStyleAttribute

[C#] public const HtmlTextWriterAttribute Src;

[C++] public: const HtmlTextWriterAttribute Src;

[VB] Public Const Src As HtmlTextWriterAttribute

[JScript] public var Src : HtmlTextWriterAttribute;

Description

Specifies that the HTML **src** attribute should be written to the tag.

WriteStyleAttribute

```
[C#] public const HtmlTextWriterAttribute Style;
[C++] public: const HtmlTextWriterAttribute Style;
[VB] Public Const Style As HtmlTextWriterAttribute
[JScript] public var Style : HtmlTextWriterAttribute;
```

Description

Specifies that the HTML **style** attribute should be written to the tag.

WriteStyleAttribute

```
[C#] public const HtmlTextWriterAttribute Tabindex;
[C++] public: const HtmlTextWriterAttribute Tabindex;
[VB] Public Const Tabindex As HtmlTextWriterAttribute
[JScript] public var Tabindex : HtmlTextWriterAttribute;
```

Description

Specifies that the HTML **tabindex** attribute should be written to the tag.

WriteStyleAttribute

```
[C#] public const HtmlTextWriterAttribute Target;
[C++] public: const HtmlTextWriterAttribute Target;
[VB] Public Const Target As HtmlTextWriterAttribute
[JScript] public var Target : HtmlTextWriterAttribute;
```

Description

Specifies that the HTML **target** attribute should be written to the tag.

WriteStyleAttribute

```
[C#] public const HtmlTextWriterAttribute Title;
[C++] public: const HtmlTextWriterAttribute Title;
[VB] Public Const Title As HtmlTextWriterAttribute
[JScript] public var Title : HtmlTextWriterAttribute;
```

Description

Specifies that the HTML **title** attribute should be written to the tag.

WriteStyleAttribute

```
[C#] public const HtmlTextWriterAttribute Type;
[C++] public: const HtmlTextWriterAttribute Type;
[VB] Public Const Type As HtmlTextWriterAttribute
[JScript] public var Type : HtmlTextWriterAttribute;
```

Description

Specifies that the HTML **type** attribute should be written to the tag.

WriteStyleAttribute

```
[C#] public const HtmlTextWriterAttribute Valign;
[C++] public: const HtmlTextWriterAttribute Valign;
```

```
[VB] Public Const Valign As HtmlTextWriterAttribute
[JScript] public var Valign : HtmlTextWriterAttribute;
```

Description

Specifies that the HTML **valign** attribute should be written to the tag.

WriteStyleAttribute

```
[C#] public const HtmlTextWriterAttribute Value;
[C++] public: const HtmlTextWriterAttribute Value;
[VB] Public Const Value As HtmlTextWriterAttribute
[JScript] public var Value : HtmlTextWriterAttribute;
```

Description

Specifies that the HTML **value** attribute should be written to the tag.

WriteStyleAttribute

```
[C#] public const HtmlTextWriterAttribute Width;
[C++] public: const HtmlTextWriterAttribute Width;
[VB] Public Const Width As HtmlTextWriterAttribute
[JScript] public var Width : HtmlTextWriterAttribute;
```

Description

Specifies that the HTML **width** attribute should be written to the tag.

WriteStyleAttribute

[C#] public const HtmlTextWriterAttribute Wrap;

[C++] public: const HtmlTextWriterAttribute Wrap;

[VB] Public Const Wrap As HtmlTextWriterAttribute

[JScript] public var Wrap : HtmlTextWriterAttribute;

Description

Specifies that the HTML **wrap** attribute should be written to the tag.

HtmlTextWriterStyle enumeration (System.Web.UI)

ToString

Description

Specifies the HTML styles available to an **System.Web.UI.HtmlTextWriter** or **System.Web.UI.Html32TextWriter** object output stream.

HtmlTextWriter and **Html32TextWriter** objects use these enumeration values to register HTML strings to the proper HTML style.

ToString

[C#] public const HtmlTextWriterStyle BackgroundColor;

[C++] public: const HtmlTextWriterStyle BackgroundColor;

[VB] Public Const BackgroundColor As HtmlTextWriterStyle

[JScript] public var BackgroundColor : HtmlTextWriterStyle;

Description

Specifies the HTML **backgroundcolor** style.

ToString

```
[C#] public const HtmlTextWriterStyle BackgroundImage;
[C++] public: const HtmlTextWriterStyle BackgroundImage;
[VB] Public Const BackgroundImage As HtmlTextWriterStyle
[JScript] public var BackgroundImage : HtmlTextWriterStyle;
```

Description

Specifies the HTML **backgroundimage** style.

ToString

```
[C#] public const HtmlTextWriterStyle BorderCollapse;
[C++] public: const HtmlTextWriterStyle BorderCollapse;
[VB] Public Const BorderCollapse As HtmlTextWriterStyle
[JScript] public var BorderCollapse : HtmlTextWriterStyle;
```

Description

Specifies the HTML **bordercollapse** style.

ToString

```
[C#] public const HtmlTextWriterStyle BorderColor;
[C++] public: const HtmlTextWriterStyle BorderColor;
```

```
[VB] Public Const BorderColor As HtmlTextWriterStyle
[JScript] public var BorderColor : HtmlTextWriterStyle;
```

Description

Specifies the HTML **bordercolor** style.

ToString

```
[C#] public const HtmlTextWriterStyle BorderStyle;
[C++] public: const HtmlTextWriterStyle BorderStyle;
[VB] Public Const BorderStyle As HtmlTextWriterStyle
[JScript] public var BorderStyle : HtmlTextWriterStyle;
```

Description

Specifies the HTML **borderstyle** style.

ToString

```
[C#] public const HtmlTextWriterStyle BorderWidth;
[C++] public: const HtmlTextWriterStyle BorderWidth;
[VB] Public Const BorderWidth As HtmlTextWriterStyle
[JScript] public var BorderWidth : HtmlTextWriterStyle;
```

Description

Specifies the HTML **borderwidth** style.

ToString

```
[C#] public const HtmlTextWriterStyle Color;
[C++] public: const HtmlTextWriterStyle Color;
[VB] Public Const Color As HtmlTextWriterStyle
[JScript] public var Color : HtmlTextWriterStyle;
```

Description

Specifies the HTML **color** style.

ToString

```
[C#] public const HtmlTextWriterStyle FontFamily;
[C++] public: const HtmlTextWriterStyle FontFamily;
[VB] Public Const FontFamily As HtmlTextWriterStyle
[JScript] public var FontFamily : HtmlTextWriterStyle;
```

Description

Specifies the HTML **fontfamily** style.

ToString

```
[C#] public const HtmlTextWriterStyle FontSize;
[C++] public: const HtmlTextWriterStyle FontSize;
[VB] Public Const FontSize As HtmlTextWriterStyle
[JScript] public var FontSize : HtmlTextWriterStyle;
```

Description

Specifies the HTML **fontsize** style.

ToString

```
[C#] public const HtmlTextWriterStyle FontStyle;
[C++] public: const HtmlTextWriterStyle FontStyle;
[VB] Public Const FontStyle As HtmlTextWriterStyle
[JScript] public var FontStyle : HtmlTextWriterStyle;
```

Description

Specifies the HTML **fontstyle** style.

ToString

```
[C#] public const HtmlTextWriterStyle FontWeight;
[C++] public: const HtmlTextWriterStyle FontWeight;
[VB] Public Const FontWeight As HtmlTextWriterStyle
[JScript] public var FontWeight : HtmlTextWriterStyle;
```

Description

Specifies the HTML **fontweight** style.

ToString

```
[C#] public const HtmlTextWriterStyle Height;
[C++] public: const HtmlTextWriterStyle Height;
[VB] Public Const Height As HtmlTextWriterStyle
[JScript] public var Height : HtmlTextWriterStyle;
```

Description

Specifies the HTML **height** style.

ToString

[C#] public const HtmlTextWriterStyle TextDecoration;

[C++] public: const HtmlTextWriterStyle TextDecoration;

[VB] Public Const TextDecoration As HtmlTextWriterStyle

[JScript] public var TextDecoration : HtmlTextWriterStyle;

Description

Specifies the HTML **textdecoration** style.

ToString

[C#] public const HtmlTextWriterStyle Width;

[C++] public: const HtmlTextWriterStyle Width;

[VB] Public Const Width As HtmlTextWriterStyle

[JScript] public var Width : HtmlTextWriterStyle;

Description

Specifies the HTML **width** style.

HtmlTextWriterTag enumeration (System.Web.UI)

ToString

Description

Specifies the HTML tags that can be passed to an **System.Web.UI.HtmlTextWriter** or **System.Web.UI.Html32TextWriter** object output stream.

This enumeration allows the output stream to write HTML mark up, along with HTML server controls, in response to a Web request.

ToString

```
[C#] public const HtmlTextWriterTag A;
[C++] public: const HtmlTextWriterTag A;
[VB] Public Const A As HtmlTextWriterTag
[JScript] public var A : HtmlTextWriterTag;
```

Description

Specifies the HTML **a** element.

ToString

```
[C#] public const HtmlTextWriterTag Acronym;
[C++] public: const HtmlTextWriterTag Acronym;
[VB] Public Const Acronym As HtmlTextWriterTag
[JScript] public var Acronym : HtmlTextWriterTag;
```

Description

Specifies the HTML **acronym** element.

ToString

```
[C#]       public    const    HtmlTextWriterTag    Address;
[C++]      public:   const    HtmlTextWriterTag    Address;
[VB]       Public    Const    Address    As    HtmlTextWriterTag
[JScript]  public    var      Address    :     HtmlTextWriterTag;
```

Description

Specifies the HTML **address** element.

ToString

```
[C#]       public    const    HtmlTextWriterTag    Area;
[C++]      public:   const    HtmlTextWriterTag    Area;
[VB]       Public    Const    Area    As    HtmlTextWriterTag
[JScript]  public    var      Area    :     HtmlTextWriterTag;
```

Description

Specifies the HTML **area** element.

ToString

```
[C#]       public    const    HtmlTextWriterTag    B;
[C++]      public:   const    HtmlTextWriterTag    B;
[VB]       Public    Const    B    As    HtmlTextWriterTag
[JScript]  public    var      B    :     HtmlTextWriterTag;
```

Description

Specifies the HTML **b** element.

ToString

```
[C#] public const HtmlTextWriterTag Base;
[C++] public: const HtmlTextWriterTag Base;
[VB] Public Const Base As HtmlTextWriterTag
[JScript] public var Base : HtmlTextWriterTag;
```

Description

Specifies the HTML **base** element.

ToString

```
[C#] public const HtmlTextWriterTag Basefont;
[C++] public: const HtmlTextWriterTag Basefont;
[VB] Public Const Basefont As HtmlTextWriterTag
[JScript] public var Basefont : HtmlTextWriterTag;
```

Description

Specifies the HTML **basefont** element.

ToString

```
[C#] public const HtmlTextWriterTag Bdo;
[C++] public: const HtmlTextWriterTag Bdo;
```

```
[VB] Public Const Bdo As HtmlTextWriterTag
[JScript] public var Bdo : HtmlTextWriterTag;
```

Description

Specifies the HTML **bdo** element.

ToString

```
[C#] public const HtmlTextWriterTag Bgsound;
[C++] public: const HtmlTextWriterTag Bgsound;
[VB] Public Const Bgsound As HtmlTextWriterTag
[JScript] public var Bgsound : HtmlTextWriterTag;
```

Description

Specifies the HTML **bgsound** element.

ToString

```
[C#] public const HtmlTextWriterTag Big;
[C++] public: const HtmlTextWriterTag Big;
[VB] Public Const Big As HtmlTextWriterTag
[JScript] public var Big : HtmlTextWriterTag;
```

Description

Specifies the HTML **big** element.

ToString

```
[C#] public const HtmlTextWriterTag Blockquote;
[C++] public: const HtmlTextWriterTag Blockquote;
[VB] Public Const Blockquote As HtmlTextWriterTag
[JScript] public var Blockquote : HtmlTextWriterTag;
```

Description

Specifies the HTML **blockquote** element.

ToString

```
[C#] public const HtmlTextWriterTag Body;
[C++] public: const HtmlTextWriterTag Body;
[VB] Public Const Body As HtmlTextWriterTag
[JScript] public var Body : HtmlTextWriterTag;
```

Description

Specifies the HTML **body** element.

ToString

```
[C#] public const HtmlTextWriterTag Br;
[C++] public: const HtmlTextWriterTag Br;
[VB] Public Const Br As HtmlTextWriterTag
[JScript] public var Br : HtmlTextWriterTag;
```

Description

Specifies the HTML **br** element.

ToString

[C#] public const HtmlTextWriterTag Button;

[C++] public: const HtmlTextWriterTag Button;

[VB] Public Const Button As HtmlTextWriterTag

[JScript] public var Button : HtmlTextWriterTag;

Description

Specifies the HTML **button** element.

ToString

[C#] public const HtmlTextWriterTag Caption;

[C++] public: const HtmlTextWriterTag Caption;

[VB] Public Const Caption As HtmlTextWriterTag

[JScript] public var Caption : HtmlTextWriterTag;

Description

Specifies the HTML **caption** element.

ToString

[C#] public const HtmlTextWriterTag Center;

[C++] public: const HtmlTextWriterTag Center;

[VB] Public Const Center As HtmlTextWriterTag

[JScript] public var Center : HtmlTextWriterTag;

Description

Specifies the HTML **center** element.

ToString

```
[C#] public const HtmlTextWriterTag Cite;
[C++] public: const HtmlTextWriterTag Cite;
[VB] Public Const Cite As HtmlTextWriterTag
[JScript] public var Cite : HtmlTextWriterTag;
```

Description

Specifies the HTML **cite** element.

ToString

```
[C#] public const HtmlTextWriterTag Code;
[C++] public: const HtmlTextWriterTag Code;
[VB] Public Const Code As HtmlTextWriterTag
[JScript] public var Code : HtmlTextWriterTag;
```

Description

Specifies the HTML **code** element.

ToString

```
[C#] public const HtmlTextWriterTag Col;
[C++] public: const HtmlTextWriterTag Col;
```

```
[VB] Public Const Col As HtmlTextWriterTag
[JScript] public var Col : HtmlTextWriterTag;
```

Description

Specifies the HTML **col** element.

ToString

```
[C#] public const HtmlTextWriterTag Colgroup;
[C++] public: const HtmlTextWriterTag Colgroup;
[VB] Public Const Colgroup As HtmlTextWriterTag
[JScript] public var Colgroup : HtmlTextWriterTag;
```

Description

Specifies the HTML **colgroup** element.

ToString

```
[C#] public const HtmlTextWriterTag Dd;
[C++] public: const HtmlTextWriterTag Dd;
[VB] Public Const Dd As HtmlTextWriterTag
[JScript] public var Dd : HtmlTextWriterTag;
```

Description

Specifies the HTML **dd** element.

ToString

```
[C#] public const HtmlTextWriterTag Del;
[C++] public: const HtmlTextWriterTag Del;
[VB] Public Const Del As HtmlTextWriterTag
[JScript] public var Del : HtmlTextWriterTag;
```

Description

Specifies the HTML **cel** element.

ToString

```
[C#] public const HtmlTextWriterTag Dfn;
[C++] public: const HtmlTextWriterTag Dfn;
[VB] Public Const Dfn As HtmlTextWriterTag
[JScript] public var Dfn : HtmlTextWriterTag;
```

Description

Specifies the HTML **dfn** element.

ToString

```
[C#] public const HtmlTextWriterTag Dir;
[C++] public: const HtmlTextWriterTag Dir;
[VB] Public Const Dir As HtmlTextWriterTag
[JScript] public var Dir : HtmlTextWriterTag;
```

Description

Specifies the HTML **dir** element.

ToString

```
[C#] public const HtmlTextWriterTag Div;
[C++] public: const HtmlTextWriterTag Div;
[VB] Public Const Div As HtmlTextWriterTag
[JScript] public var Div : HtmlTextWriterTag;
```

Description

Specifies the HTML **div** element.

ToString

```
[C#] public const HtmlTextWriterTag Dl;
[C++] public: const HtmlTextWriterTag Dl;
[VB] Public Const Dl As HtmlTextWriterTag
[JScript] public var Dl : HtmlTextWriterTag;
```

Description

Specifies the HTML **dl** element.

ToString

```
[C#] public const HtmlTextWriterTag Dt;
[C++] public: const HtmlTextWriterTag Dt;
[VB] Public Const Dt As HtmlTextWriterTag
[JScript] public var Dt : HtmlTextWriterTag;
```

Description

Specifies the HTML **dt** element.

ToString

```
[C#] public const HtmlTextWriterTag Em;
[C++] public: const HtmlTextWriterTag Em;
[VB] Public Const Em As HtmlTextWriterTag
[JScript] public var Em : HtmlTextWriterTag;
```

Description

Specifies the HTML **em** element.

ToString

```
[C#] public const HtmlTextWriterTag Embed;
[C++] public: const HtmlTextWriterTag Embed;
[VB] Public Const Embed As HtmlTextWriterTag
[JScript] public var Embed : HtmlTextWriterTag;
```

Description

Specifies the HTML **embed** element.

ToString

```
[C#] public const HtmlTextWriterTag Fieldset;
[C++] public: const HtmlTextWriterTag Fieldset;
```

```
[VB]       Public     Const     Fieldset     As     HtmlTextWriterTag
[JScript]     public     var     Fieldset     :     HtmlTextWriterTag;
```

Description

Specifies the HTML **fieldset** element.

ToString

```
[C#]         public         const         HtmlTextWriterTag         Font;
[C++]        public:        const         HtmlTextWriterTag         Font;
[VB]       Public     Const     Font     As     HtmlTextWriterTag
[JScript]     public     var     Font     :     HtmlTextWriterTag;
```

Description

Specifies the HTML **font** element.

ToString

```
[C#]         public         const         HtmlTextWriterTag         Form;
[C++]        public:        const         HtmlTextWriterTag         Form;
[VB]       Public     Const     Form     As     HtmlTextWriterTag
[JScript]     public     var     Form     :     HtmlTextWriterTag;
```

Description

Specifies the HTML **form** element.

ToString

```
[C#] public const HtmlTextWriterTag Frame;
[C++] public: const HtmlTextWriterTag Frame;
[VB] Public Const Frame As HtmlTextWriterTag
[JScript] public var Frame : HtmlTextWriterTag;
```

Description

Specifies the HTML **frame** element.

ToString

```
[C#] public const HtmlTextWriterTag Frameset;
[C++] public: const HtmlTextWriterTag Frameset;
[VB] Public Const Frameset As HtmlTextWriterTag
[JScript] public var Frameset : HtmlTextWriterTag;
```

Description

Specifies the HTML **frameset** element.

ToString

```
[C#] public const HtmlTextWriterTag H1;
[C++] public: const HtmlTextWriterTag H1;
[VB] Public Const H1 As HtmlTextWriterTag
[JScript] public var H1 : HtmlTextWriterTag;
```

Description

Specifies the HTML **H1** element.

ToString

```
[C#] public const HtmlTextWriterTag H2;
[C++] public: const HtmlTextWriterTag H2;
[VB] Public Const H2 As HtmlTextWriterTag
[JScript] public var H2 : HtmlTextWriterTag;
```

Description

Specifies the HTML **H2** element.

ToString

```
[C#] public const HtmlTextWriterTag H3;
[C++] public: const HtmlTextWriterTag H3;
[VB] Public Const H3 As HtmlTextWriterTag
[JScript] public var H3 : HtmlTextWriterTag;
```

Description

Specifies the HTML **H3** element.

ToString

```
[C#] public const HtmlTextWriterTag H4;
[C++] public: const HtmlTextWriterTag H4;
[VB] Public Const H4 As HtmlTextWriterTag
[JScript] public var H4 : HtmlTextWriterTag;
```

Description

Specifies the HTML **H4** element.

ToString

```
[C#]        public      const       HtmlTextWriterTag       H5;
[C++]       public:     const       HtmlTextWriterTag       H5;
[VB]        Public      Const   H5      As      HtmlTextWriterTag
[JScript]   public      var     H5      :       HtmlTextWriterTag;
```

Description

Specifies the HTML **H5** element.

ToString

```
[C#]        public      const       HtmlTextWriterTag       H6;
[C++]       public:     const       HtmlTextWriterTag       H6;
[VB]        Public      Const   H6      As      HtmlTextWriterTag
[JScript]   public      var     H6      :       HtmlTextWriterTag;
```

Description

Specifies the HTML **H6** element.

ToString

```
[C#]        public      const       HtmlTextWriterTag       Head;
[C++]       public:     const       HtmlTextWriterTag       Head;
```

```
[VB]        Public      Const      Head      As      HtmlTextWriterTag
[JScript]      public      var      Head      :      HtmlTextWriterTag;
```

Description

Specifies the HTML **head** element.

ToString

```
[C#]        public        const        HtmlTextWriterTag        Hr;
[C++]       public:       const        HtmlTextWriterTag        Hr;
[VB]        Public      Const      Hr      As      HtmlTextWriterTag
[JScript]      public      var      Hr      :      HtmlTextWriterTag;
```

Description

Specifies the HTML **hr** element.

ToString

```
[C#]        public        const        HtmlTextWriterTag        Html;
[C++]       public:       const        HtmlTextWriterTag        Html;
[VB]        Public      Const      Html      As      HtmlTextWriterTag
[JScript]      public      var      Html      :      HtmlTextWriterTag;
```

Description

Specifies the HTML **html** element.

ToString

[C#] public const HtmlTextWriterTag I;
[C++] public: const HtmlTextWriterTag I;
[VB] Public Const I As HtmlTextWriterTag
[JScript] public var I : HtmlTextWriterTag;

Description

Specifies the HTML **i** element.

ToString

[C#] public const HtmlTextWriterTag Iframe;
[C++] public: const HtmlTextWriterTag Iframe;
[VB] Public Const Iframe As HtmlTextWriterTag
[JScript] public var Iframe : HtmlTextWriterTag;

Description

Specifies the HTML **iframe** element.

ToString

[C#] public const HtmlTextWriterTag Img;
[C++] public: const HtmlTextWriterTag Img;
[VB] Public Const Img As HtmlTextWriterTag
[JScript] public var Img : HtmlTextWriterTag;

Description

Specifies the HTML **img** element.

ToString

[C#] public const HtmlTextWriterTag Input;

[C++] public: const HtmlTextWriterTag Input;

[VB] Public Const Input As HtmlTextWriterTag

[JScript] public var Input : HtmlTextWriterTag;

Description

Specifies the HTML **input** element.

ToString

[C#] public const HtmlTextWriterTag Ins;

[C++] public: const HtmlTextWriterTag Ins;

[VB] Public Const Ins As HtmlTextWriterTag

[JScript] public var Ins : HtmlTextWriterTag;

Description

Specifies the HTML **ins** element.

ToString

[C#] public const HtmlTextWriterTag Isindex;

[C++] public: const HtmlTextWriterTag Isindex;

[VB] Public Const Isindex As HtmlTextWriterTag

[JScript] public var Isindex : HtmlTextWriterTag;

Description

Specifies the HTML **isindex** element.

ToString

```
[C#]        public      const      HtmlTextWriterTag      Kbd;
[C++]       public:     const      HtmlTextWriterTag      Kbd;
[VB]        Public      Const      Kbd      As      HtmlTextWriterTag
[JScript]   public      var      Kbd      :      HtmlTextWriterTag;
```

Description

Specifies the HTML **kbd** element.

ToString

```
[C#]        public      const      HtmlTextWriterTag      Label;
[C++]       public:     const      HtmlTextWriterTag      Label;
[VB]        Public      Const      Label      As      HtmlTextWriterTag
[JScript]   public      var      Label      :      HtmlTextWriterTag;
```

Description

Specifies the HTML **label** element.

ToString

```
[C#]        public      const      HtmlTextWriterTag      Legend;
[C++]       public:     const      HtmlTextWriterTag      Legend;
```

```
[VB]        Public      Const       Legend      As          HtmlTextWriterTag
[JScript]       public      var         Legend      :       HtmlTextWriterTag;
```

Description

Specifies the HTML **legend** element.

ToString

```
[C#]        public          const           HtmlTextWriterTag           Li;
[C++]       public:         const           HtmlTextWriterTag           Li;
[VB]        Public      Const       Li      As          HtmlTextWriterTag
[JScript]       public      var         Li      :       HtmlTextWriterTag;
```

Description

Specifies the HTML **li** element.

ToString

```
[C#]        public          const           HtmlTextWriterTag           Link;
[C++]       public:         const           HtmlTextWriterTag           Link;
[VB]        Public      Const       Link        As          HtmlTextWriterTag
[JScript]       public      var         Link        :       HtmlTextWriterTag;
```

Description

Specifies the HTML **link** element.

ToString

```
[C#]        public      const       HtmlTextWriterTag       Map;
[C++]       public:     const       HtmlTextWriterTag       Map;
[VB]        Public      Const       Map     As      HtmlTextWriterTag
[JScript]   public      var         Map     :       HtmlTextWriterTag;
```

Description

Specifies the HTML **map** element.

ToString

```
[C#]        public      const       HtmlTextWriterTag       Marquee;
[C++]       public:     const       HtmlTextWriterTag       Marquee;
[VB]        Public      Const       Marquee     As      HtmlTextWriterTag
[JScript]   public      var         Marquee     :       HtmlTextWriterTag;
```

Description

Specifies the HTML **marquee** element.

ToString

```
[C#]        public      const       HtmlTextWriterTag       Menu;
[C++]       public:     const       HtmlTextWriterTag       Menu;
[VB]        Public      Const       Menu    As      HtmlTextWriterTag
[JScript]   public      var         Menu    :       HtmlTextWriterTag;
```

Description

Specifies the HTML **menu** element.

ToString

[C#] public const HtmlTextWriterTag Meta;

[C++] public: const HtmlTextWriterTag Meta;

[VB] Public Const Meta As HtmlTextWriterTag

[JScript] public var Meta : HtmlTextWriterTag;

Description

Specifies the HTML **meta** element.

ToString

[C#] public const HtmlTextWriterTag Nobr;

[C++] public: const HtmlTextWriterTag Nobr;

[VB] Public Const Nobr As HtmlTextWriterTag

[JScript] public var Nobr : HtmlTextWriterTag;

Description

Specifies the HTML **nobr** element.

ToString

[C#] public const HtmlTextWriterTag Noframes;

[C++] public: const HtmlTextWriterTag Noframes;

[VB] Public Const Noframes As HtmlTextWriterTag

[JScript] public var Noframes : HtmlTextWriterTag;

Description

Specifies the HTML **noframes** element.

ToString

```
[C#] public const HtmlTextWriterTag Noscript;
[C++] public: const HtmlTextWriterTag Noscript;
[VB] Public Const Noscript As HtmlTextWriterTag
[JScript] public var Noscript : HtmlTextWriterTag;
```

Description

Specifies the HTML **noscript** element.

ToString

```
[C#] public const HtmlTextWriterTag Object;
[C++] public: const HtmlTextWriterTag Object;
[VB] Public Const Object As HtmlTextWriterTag
[JScript] public var Object : HtmlTextWriterTag;
```

Description

Specifies the HTML **object** element.

ToString

```
[C#] public const HtmlTextWriterTag Ol;
[C++] public: const HtmlTextWriterTag Ol;
```

```
[VB] Public Const Ol As HtmlTextWriterTag
[JScript] public var Ol : HtmlTextWriterTag;
```

Description

Specifies the HTML **ol** element.

ToString

```
[C#] public const HtmlTextWriterTag Option;
[C++] public: const HtmlTextWriterTag Option;
[VB] Public Const Option As HtmlTextWriterTag
[JScript] public var Option : HtmlTextWriterTag;
```

Description

Specifies the HTML **option** element.

ToString

```
[C#] public const HtmlTextWriterTag P;
[C++] public: const HtmlTextWriterTag P;
[VB] Public Const P As HtmlTextWriterTag
[JScript] public var P : HtmlTextWriterTag;
```

Description

Specifies the HTML **p** element.

ToString

[C#] public const HtmlTextWriterTag Param;

[C++] public: const HtmlTextWriterTag Param;

[VB] Public Const Param As HtmlTextWriterTag

[JScript] public var Param : HtmlTextWriterTag;

Description

Specifies the HTML **param** element.

ToString

[C#] public const HtmlTextWriterTag Pre;

[C++] public: const HtmlTextWriterTag Pre;

[VB] Public Const Pre As HtmlTextWriterTag

[JScript] public var Pre : HtmlTextWriterTag;

Description

Specifies the HTML **pre** element.

ToString

[C#] public const HtmlTextWriterTag Q;

[C++] public: const HtmlTextWriterTag Q;

[VB] Public Const Q As HtmlTextWriterTag

[JScript] public var Q : HtmlTextWriterTag;

Description

Specifies the HTML **q** element.

ToString

```
[C#] public const HtmlTextWriterTag Rt;
[C++] public: const HtmlTextWriterTag Rt;
[VB] Public Const Rt As HtmlTextWriterTag
[JScript] public var Rt : HtmlTextWriterTag;
```

Description

Specifies the HTML **rt** element.

ToString

```
[C#] public const HtmlTextWriterTag Ruby;
[C++] public: const HtmlTextWriterTag Ruby;
[VB] Public Const Ruby As HtmlTextWriterTag
[JScript] public var Ruby : HtmlTextWriterTag;
```

Description

Specifies the HTML **ruby** element.

ToString

```
[C#] public const HtmlTextWriterTag S;
[C++] public: const HtmlTextWriterTag S;
[VB] Public Const S As HtmlTextWriterTag
[JScript] public var S : HtmlTextWriterTag;
```

Description

Specifies the HTML **s** element.

ToString

```
[C#]        public      const      HtmlTextWriterTag      Samp;
[C++]       public:     const      HtmlTextWriterTag      Samp;
[VB]     Public     Const     Samp     As     HtmlTextWriterTag
[JScript]     public     var     Samp     :     HtmlTextWriterTag;
```

Description

Specifies the HTML **samp** element.

ToString

```
[C#]        public      const      HtmlTextWriterTag      Script;
[C++]       public:     const      HtmlTextWriterTag      Script;
[VB]     Public     Const     Script     As     HtmlTextWriterTag
[JScript]     public     var     Script     :     HtmlTextWriterTag;
```

Description

Specifies the HTML **script** element.

ToString

```
[C#]        public      const      HtmlTextWriterTag      Select;
[C++]       public:     const      HtmlTextWriterTag      Select;
```

```
[VB] Public Const Select As HtmlTextWriterTag
[JScript] public var Select : HtmlTextWriterTag;
```

Description

Specifies the HTML **select** element.

ToString

```
[C#] public const HtmlTextWriterTag Small;
[C++] public: const HtmlTextWriterTag Small;
[VB] Public Const Small As HtmlTextWriterTag
[JScript] public var Small : HtmlTextWriterTag;
```

Description

Specifies the HTML **small** element.

ToString

```
[C#] public const HtmlTextWriterTag Span;
[C++] public: const HtmlTextWriterTag Span;
[VB] Public Const Span As HtmlTextWriterTag
[JScript] public var Span : HtmlTextWriterTag;
```

Description

Specifies the HTML **span** element.

ToString

```
[C#]      public     const     HtmlTextWriterTag     Strike;
[C++]     public:    const     HtmlTextWriterTag     Strike;
[VB]      Public     Const     Strike    As     HtmlTextWriterTag
[JScript] public     var       Strike    :      HtmlTextWriterTag;
```

Description

Specifies the HTML **strike** element.

ToString

```
[C#]      public     const     HtmlTextWriterTag     Strong;
[C++]     public:    const     HtmlTextWriterTag     Strong;
[VB]      Public     Const     Strong    As     HtmlTextWriterTag
[JScript] public     var       Strong    :      HtmlTextWriterTag;
```

Description

Specifies the HTML **strong** element.

ToString

```
[C#]      public     const     HtmlTextWriterTag     Style;
[C++]     public:    const     HtmlTextWriterTag     Style;
[VB]      Public     Const     Style     As     HtmlTextWriterTag
[JScript] public     var       Style     :      HtmlTextWriterTag;
```

Description

Specifies the HTML **style** element.

ToString

```
[C#] public const HtmlTextWriterTag Sub;
[C++] public: const HtmlTextWriterTag Sub;
[VB] Public Const Sub As HtmlTextWriterTag
[JScript] public var Sub : HtmlTextWriterTag;
```

Description

Specifies the HTML **sub** element.

ToString

```
[C#] public const HtmlTextWriterTag Sup;
[C++] public: const HtmlTextWriterTag Sup;
[VB] Public Const Sup As HtmlTextWriterTag
[JScript] public var Sup : HtmlTextWriterTag;
```

Description

Specifies the HTML **sup** element.

ToString

```
[C#] public const HtmlTextWriterTag Table;
[C++] public: const HtmlTextWriterTag Table;
[VB] Public Const Table As HtmlTextWriterTag
[JScript] public var Table : HtmlTextWriterTag;
```

Description

Specifies the HTML **table** element.

ToString

```
[C#] public const HtmlTextWriterTag Tbody;
[C++] public: const HtmlTextWriterTag Tbody;
[VB] Public Const Tbody As HtmlTextWriterTag
[JScript] public var Tbody : HtmlTextWriterTag;
```

Description

Specifies the HTML **tbody** element.

ToString

```
[C#] public const HtmlTextWriterTag Td;
[C++] public: const HtmlTextWriterTag Td;
[VB] Public Const Td As HtmlTextWriterTag
[JScript] public var Td : HtmlTextWriterTag;
```

Description

Specifies the HTML **td** element.

ToString

```
[C#] public const HtmlTextWriterTag Textarea;
[C++] public: const HtmlTextWriterTag Textarea;
```

```
[VB] Public Const Textarea As HtmlTextWriterTag
[JScript] public var Textarea : HtmlTextWriterTag;
```

Description

Specifies the HTML **textarea** element.

ToString

```
[C#] public const HtmlTextWriterTag Tfoot;
[C++] public: const HtmlTextWriterTag Tfoot;
[VB] Public Const Tfoot As HtmlTextWriterTag
[JScript] public var Tfoot : HtmlTextWriterTag;
```

Description

Specifies the HTML **tfoot** element.

ToString

```
[C#] public const HtmlTextWriterTag Th;
[C++] public: const HtmlTextWriterTag Th;
[VB] Public Const Th As HtmlTextWriterTag
[JScript] public var Th : HtmlTextWriterTag;
```

Description

Specifies the HTML **th** element.

ToString

```
[C#] public const HtmlTextWriterTag Thead;
[C++] public: const HtmlTextWriterTag Thead;
[VB] Public Const Thead As HtmlTextWriterTag
[JScript] public var Thead : HtmlTextWriterTag;
```

Description

Specifies the HTML **thead** element.

ToString

```
[C#] public const HtmlTextWriterTag Title;
[C++] public: const HtmlTextWriterTag Title;
[VB] Public Const Title As HtmlTextWriterTag
[JScript] public var Title : HtmlTextWriterTag;
```

Description

Specifies the HTML **title** element.

ToString

```
[C#] public const HtmlTextWriterTag Tr;
[C++] public: const HtmlTextWriterTag Tr;
[VB] Public Const Tr As HtmlTextWriterTag
[JScript] public var Tr : HtmlTextWriterTag;
```

Description

Specifies the HTML **tr** element.

ToString

```
[C#] public const HtmlTextWriterTag Tt;
[C++] public: const HtmlTextWriterTag Tt;
[VB] Public Const Tt As HtmlTextWriterTag
[JScript] public var Tt : HtmlTextWriterTag;
```

Description

Specifies the HTML **tt** element.

ToString

```
[C#] public const HtmlTextWriterTag U;
[C++] public: const HtmlTextWriterTag U;
[VB] Public Const U As HtmlTextWriterTag
[JScript] public var U : HtmlTextWriterTag;
```

Description

Specifies the HTML **u** element.

ToString

```
[C#] public const HtmlTextWriterTag Ul;
[C++] public: const HtmlTextWriterTag Ul;
[VB] Public Const Ul As HtmlTextWriterTag
[JScript] public var Ul : HtmlTextWriterTag;
```

Description

Specifies the HTML **ul** element.

ToString

```
[C#] public const HtmlTextWriterTag Unknown;
[C++] public: const HtmlTextWriterTag Unknown;
[VB] Public Const Unknown As HtmlTextWriterTag
[JScript] public var Unknown : HtmlTextWriterTag;
```

Description

The **System.String** passed as an HTML tag is not recognized.

ToString

```
[C#] public const HtmlTextWriterTag Var;
[C++] public: const HtmlTextWriterTag Var;
[VB] Public Const Var As HtmlTextWriterTag
[JScript] public var Var : HtmlTextWriterTag;
```

Description

Specifies the HTML **var** element.

ToString

```
[C#] public const HtmlTextWriterTag Wbr;
[C++] public: const HtmlTextWriterTag Wbr;
```

[VB] Public Const Wbr As HtmlTextWriterTag

[JScript] public var Wbr : HtmlTextWriterTag;

Description

Specifies the HTML **wbr** element.

ToString

[C#] public const HtmlTextWriterTag Xml;

[C++] public: const HtmlTextWriterTag Xml;

[VB] Public Const Xml As HtmlTextWriterTag

[JScript] public var Xml : HtmlTextWriterTag;

Description

Specifies the HTML **xml** element.

IAttributeAccessor interface (System.Web.UI)

ToString

Description

Defines methods used by ASP.NET server controls to provide programmatic access to any attribute declared in the opening tag of a server control.

If you author a custom server control that inherits from the **System.Web.UI.WebControls.WebControl** , **System.Web.UI.HtmlControls.HtmlControl** , or

System.Web.UI.WebControls.ListItem class, the .NET Framework automatically provides programmatic access to attributes since each of these classes implement the **IAttributeAccessor** interface.

GetAttribute

```
[C#] string GetAttribute(string key);
[C++] String* GetAttribute(String* key);
[VB] Function GetAttribute(ByVal key As String) As String
[JScript] function GetAttribute(key : String) : String;
```

Description

When implemented by a class, retrieves the specified attribute property from the server control. *Return Value:* The value of the specified attribute. A **System.String** object that represents the name of the server control attribute.

SetAttribute

```
[C#] void SetAttribute(string key, string value);
[C++] void SetAttribute(String* key, String* value);
[VB] Sub SetAttribute(ByVal key As String, ByVal value As String)
[JScript] function SetAttribute(key : String, value : String);
```

Description

When implemented by a class, designates an attribute and its value to assign to the ASP.NET server control. The name of the attribute to be set. The value assigned to the attribute.

IDataBindingsAccessor interface (System.Web.UI)

SetAttribute

Description

Allows access to the collection of databinding expressions on a control at design time.

DataBindings

SetAttribute

[C#] DataBindingCollection DataBindings {get;}

[C++] DataBindingCollection* get_DataBindings();

[VB] ReadOnly Property DataBindings As DataBindingCollection

[JScript] abstract function get DataBindings() : DataBindingCollection;

Description

Indicates a collection of all data bindings on the control. This property is read-only.

HasDataBindings

SetAttribute

[C#] bool HasDataBindings {get;}

[C++] bool get_HasDataBindings();
[VB] ReadOnly Property HasDataBindings As Boolean
[JScript] abstract function get HasDataBindings() : Boolean;

Description

Returns whether the control contains any data binding logic. This method is only accessed by RAD designers.

Return Value: **true** if the control contains data binding logic; otherwise, **false** .

ImageClickEventArgs class (System.Web.UI)

SetAttribute

Description

Provides data for any events that occur when a user clicks on a image-based ASP.NET server control, such as the **System.Web.UI.HtmlControls.HtmlInputImage** or **System.Web.UI.WebControls.Image** server controls. This class cannot be inherited.

This class passes the location where a user clicked on an **HtmlInputImage** server control or an **Image** Web server control. Clicking an **HtmlInputImage** server control causes a **ServerClick** event to fire, while clicking an **Image** server control causes a **Click** event to occur. You can then use event handlers to programmatically respond to the event based on the value of these coordinates.

SetAttribute

```
[C#] public int X;
[C++] public: int X;
[VB] Public X As Integer
[JScript] public var X : int;
```

Description

An integer that represents the x-coordinate where a user clicked on an image-based ASP.NET server control.

SetAttribute

```
[C#] public int Y;
[C++] public: int Y;
[VB] Public Y As Integer
[JScript] public var Y : int;
```

Description

An integer that represents the y-coordinate where a user clicked on an image-based ASP.NET server control.

ImageClickEventArgs

Example Syntax:

SetAttribute

```
[C#] public ImageClickEventArgs(int x, int y);
[C++] public: ImageClickEventArgs(int x, int y);
```

[VB] Public Sub New(ByVal x As Integer, ByVal y As Integer)

[JScript] public function ImageClickEventArgs(x : int, y : int);

Description

Initializes a new instance of the **System.Web.UI.ImageClickEventArgs** class. The x-coordinate where the user clicked on an image-based ASP.NET server control. The y-coordinate where the user clicked on an image-based ASP.NET server control.

ImageClickEventHandler delegate (System.Web.UI)

ToString

Description

Represents the method that will handle any events that are raised when a user clicks on an image-based ASP.NET server control. The server control that is the source of the event. An **System.Web.UI.ImageClickEventArgs** object that contains event data.

This delegate defines the required signature for all click events raised when a user clicks on an image-based ASP.NET server control. You must use the signature defined by this delegate for any **OnServerClick** event handlers that you create for an **System.Web.UI.HtmlControls.HtmlInputImage** server control or any **OnClick** event handlers that you create for an **System.Web.UI.WebControls.ImageButton** Web server control.

INamingContainer interface (System.Web.UI)

ToString

Description

Identifies a container control that creates a new ID namespace within a **System.Web.UI.Page** object's control hierarchy. This is a marker interface only.

Any control that implements this interface creates a new namespace in which all child control ID attributes are guaranteed to be unique within an entire application. The marker provided by this interface allows unique naming of the dynamically generated server control instances within the Web server controls that support data binding. These controls include the **System.Web.UI.WebControls.Repeater** control, the **System.Web.UI.WebControls.DataGrid** control, or the **System.Web.UI.WebControls.RadioButtonList** control.

IParserAccessor interface (System.Web.UI)

ToString

Description

Defines the method that ASP.NET server controls must implement to recognize when elements, either HTML or XML, are parsed.

When elements are parsed, they are recoginized as children of the server control that implements this interface. As such, they are added to the control's **System.Web.UI.Control.Controls** property. These elements, generally speaking, are added as **System.Web.UI.LiteralControl** objects to the **System.Web.UI.ControlCollection** object associated with **Controls** property.

AddParsedSubObject

[C#] void AddParsedSubObject(object obj);
[C++] void AddParsedSubObject(Object* obj);
[VB] Sub AddParsedSubObject(ByVal obj As Object)
[JScript] function AddParsedSubObject(obj : Object);

Description

When implemented by an ASP.NET server control, notifies the server control that an element, either XML or HTML, was parsed, and adds the element to the server control's **System.Web.UI.ControlCollection** object. The **System.Object** instance to add to the parent control.

IPostBackDataHandler interface (System.Web.UI)

AddParsedSubObject

Description

Defines methods that ASP.NET server controls must implement to automatically load post back data.

If you want a server control you design to examine form data that is posted back to the server by the client, you must implement the **IPostBackDataHandler** interface. The contract that this interface defines allows a server control to determine whether its state should be altered as a result of the post back, and to raise the appropriate events.

LoadPostData

[C#] bool LoadPostData(string postDataKey, NameValueCollection postCollection);

[C++] bool LoadPostData(String* postDataKey, NameValueCollection* postCollection);

[VB] Function LoadPostData(ByVal postDataKey As String, ByVal postCollection As NameValueCollection) As Boolean

[JScript] function LoadPostData(postDataKey : String, postCollection : NameValueCollection) : Boolean;

Description

When implemented by a class, processes post back data for an ASP.NET server control.

Return Value: **true** if the server control's state changes as a result of the post back; otherwise **false** .

The Web Forms page framework tracks all of the server control's that return true to this method call, then invokes the **System.Web.UI.IPostBackDataHandler.RaisePostDataChangedEvent** on those controls. The key identifier for the control. The collection of all incoming name values.

RaisePostDataChangedEvent

[C#] void RaisePostDataChangedEvent();

[C++] void RaisePostDataChangedEvent();

[VB] Sub RaisePostDataChangedEvent()

[JScript] function RaisePostDataChangedEvent();

Description

When implemented by a class, signals the server control object to notify the ASP.NET application that the state of the control has changed.

Change events for the server control that implements this interface, if any, are raised from this method.

IPostBackEventHandler interface (System.Web.UI)

RaisePostDataChangedEvent

Description

Defines the method ASP.NET server controls must implement to handle post back events.

To create a server control that captures form submit information from the browser, you must implement this interface. For more information on how to use this interface, see .

RaisePostBackEvent

[C#] void RaisePostBackEvent(string eventArgument);
[C++] void RaisePostBackEvent(String* eventArgument);
[VB] Sub RaisePostBackEvent(ByVal eventArgument As String)
[JScript] function RaisePostBackEvent(eventArgument : String);

Description

When implemented by a class, enables a server control to process an event raised when a form is posted to the server.

This method provides the functionality for many events implemented by HTML and Web server controls. A **System.String** that represents an optional event argument to be passed to the event handler.

IStateManager interface (System.Web.UI)

RaisePostBackEvent

Description

Defines the properties and methods any class must implement to support view state management for a server control.

A server control's view state comprises the cumulative values of the control's properties. This interface includes methods that save and load a server control's view state values, as well as a method that instructs the control to track any changes to its view state.

IsTrackingViewState

RaisePostBackEvent

[C#] bool IsTrackingViewState {get;}

[C++] bool get_IsTrackingViewState();

[VB] ReadOnly Property IsTrackingViewState As Boolean

[JScript] abstract function get IsTrackingViewState() : Boolean;

Description

When implemented by a class, gets a value indicating whether a server control is tracking its view state changes.

LoadViewState

[C#] void LoadViewState(object state);

[C++] void LoadViewState(Object* state);

[VB] Sub LoadViewState(ByVal state As Object)

[JScript] function LoadViewState(state : Object);

Description

When implemented by a class, loads the server control's previously saved view state to the control. An **System.Object** that contains the saved view state values for the control.

SaveViewState

[C#] object SaveViewState();

[C++] Object* SaveViewState();

[VB] Function SaveViewState() As Object

[JScript] function SaveViewState() : Object;

Description

When implemented by a class, saves the changes to a server control's view state to an **System.Object** .

Return Value: The **Object** that contains the view state changes.

TrackViewState

[C#]	void	TrackViewState();
[C++]	void	TrackViewState();
[VB]	Sub	TrackViewState()
[JScript]	function	TrackViewState();

Description

When implemented by a class, instructs the server control to track changes to its view state.

Once this method has been called on a server control, the **System.Web.UI.IStateManager.IsTrackingViewState** property will return **true** .

ITagNameToTypeMapper interface (System.Web.UI)

TrackViewState

Description

Maps a sequence of text characters to a .NET Framework type when an .aspx file is processed on the server.

Classes that implement this interface strongly type any string in an .aspx file to the appropriate class. HTML and literal text strings are mapped to the type **System.Web.UI.LiteralControl** , HTML anchor tags with a **runat="server"** attribute/value pair are mapped to the type **System.Web.UI.HtmlControls.HtmlAnchor** , while tags are mapped to the type **System.Web.UI.WebControls.Button** .

GetControlType

[C#] Type GetControlType(string tagName, IDictionary attribs);
[C++] Type* GetControlType(String* tagName, IDictionary* attribs);
[VB] Function GetControlType(ByVal tagName As String, ByVal attribs As IDictionary) As Type
[JScript] function GetControlType(tagName : String, attribs : IDictionary) : Type;

Description

Retrieves the .NET Framework type that processes the control declared in the .aspx file.

Return Value: The .NET Framework type that is assigned to the control. The element name of the control sent from the .aspx file. A collection of the attributes on the control in the .aspx file.

ITemplate interface (System.Web.UI)

GetControlType

Description

Defines the method to implement for populating an ASP.NET server control with child controls when using a the control with inline templates when declared in an .aspx file.

InstantiateIn

[C#] void InstantiateIn(Control container);

[C++] void InstantiateIn(Control* container);

[VB] Sub InstantiateIn(ByVal container As Control)

[JScript] function InstantiateIn(container : Control);

Description

When implemented by a class, defines the **System.Web.UI.Control** object that child controls and templates belong to. These child controls are in turn defined within an inline template.

When developing templated server controls you do not need to implement this method, the .NET Framework provides the implementation for you. The **Control** object to contain the instantiated controls from the inline template.

IValidator interface (System.Web.UI)

InstantiateIn

Description

Defines the properties and methods that objects that participate in validation must implement.

Classes that implement this interface represent a posssible user input error. When the **System.Web.UI.IValidator.Validate** method is called, the class updates its **System.Web.UI.IValidator.IsValid** property to signify whether the error occurred. The **System.Web.UI.IValidator.ErrorMessage** property contains a text description of the error condition that you can display when the error occurs.

ErrorMessage

InstantiateIn

[C#] string ErrorMessage {get; set;}
[C++] String* get_ErrorMessage();void set_ErrorMessage(String*);
[VB] Property ErrorMessage As String
[JScript] abstract function get ErrorMessage() : String;public abstract function set ErrorMessage(String);

Description

When implemented by a class, gets or sets the error message text generated when the condition being validated fails.

Web Forms page developers access this property declaratively in the opening tag of a validation server control. For more information, see .

IsValid

InstantiateIn

[C#] bool IsValid {get; set;}
[C++] bool get_IsValid();void set_IsValid(bool);
[VB] Property IsValid As Boolean
[JScript] abstract function get IsValid() : Boolean;public abstract function set IsValid(Boolean);

Description

When implemented by a class, gets or sets a value indicating whether the user-entered content in the specified control passes validation.

Validate

[C#]	void	Validate();
[C++]	void	Validate();
[VB]	Sub	Validate()
[JScript]	function	Validate();

Description

When implemented by a class, evaluates the condition it checks and upates the **System.Web.UI.IValidator.IsValid** property.

LiteralControl class (System.Web.UI)

Validate

Description

Represents HTML elements, text, and any other strings in an ASP.NET page that do not require processing on the server.

ASP.NET compiles all HTML elements and readable text that do not require server-side processing into instances of this class. For example, an HTML element that does not contain a **runat="server"** attribute/value pair in its opening tag is compiled into a **LiteralControl** object.

LiteralControl

Example Syntax:

Validate

[C#]	public	LiteralControl();

[C++] public: LiteralControl();

[VB] Public Sub New()

[JScript] public function LiteralControl(); Initializes a new instance of the **System.Web.UI.LiteralControl** class.

Description

Initializes a new instance of the **System.Web.UI.LiteralControl** class that contains a literal string to be rendered on the requested ASP.NET page.

LiteralControl

Example Syntax:

Validate

[C#] public LiteralControl(string text);

[C++] public: LiteralControl(String* text);

[VB] Public Sub New(ByVal text As String)

[JScript] public function LiteralControl(text : String);

Description

Initializes a new instance of the **System.Web.UI.LiteralControl** class with the specified text. The text to be rendered on the requested Web page.

ChildControlsCreated

ClientID

Context

Controls

EnableViewState

Events

HasChildViewState

ID

IsTrackingViewState

NamingContainer

Page

Parent

Site

TemplateSourceDirectory

Text

Validate

Description

Gets or sets the text content of the **System.Web.UI.LiteralControl** object.

UniqueID

ViewState

ViewStateIgnoresCase

Visible

CreateControlCollection

[C#] protected override ControlCollection CreateControlCollection();

[C++] protected: ControlCollection* CreateControlCollection();

[VB] Overrides Protected Function CreateControlCollection() As ControlCollection

[JScript] protected override function CreateControlCollection() : ControlCollection;

Description

Creates an **System.Web.UI.EmptyControlCollection** object for the current instance of the **System.Web.UI.LiteralControl** .

Return Value: The **EmptyControlCollection** object for the current control.

By default, **LiteralControl** objects contain only text and no child server controls. If you want to change this behavior, you must override this method.

Render

[C#] protected override void Render(HtmlTextWriter output);

[C++] protected: void Render(HtmlTextWriter* output);

[VB] Overrides Protected Sub Render(ByVal output As HtmlTextWriter)

[JScript] protected override function Render(output : HtmlTextWriter);

Description

Writes the content of the **System.Web.UI.LiteralControl** object to the ASP.NET page.

When you create a custom server control and want to render specific HTML or text to a client, you can improve the performance of the control by passing the value of the **System.Web.UI.LiteralControl.Text** property to the **System.Web.UI.Control.Render(System.Web.UI.HtmlTextWriter)** method rather than calling the **LiteralControl.Render** method. An

System.Web.UI.HtmlTextWriter object that renders the content of the **LiteralControl** object to the requesting client.

LosFormatter class (System.Web.UI)

TrackViewState

Description

Serializes the view state for a Web Forms page. The limited object serialization (LOS) formatter is designed for highly compact ASCII format serialization. This class supports serializing any object graph, but is optimized for those containing strings, arrays, and hashtables. It offers second order optimization for many of the .NET primitive types.

This is a private format, and only needs to remain consistent for the lifetime of a Web request. You are not allowed to persist objects serialized with this formatter for any significant length of time.

LosFormatter

Example Syntax:

TrackViewState

[C#] public LosFormatter();

[C++] public: LosFormatter();

[VB] Public Sub New()

[JScript] public function LosFormatter();

Deserialize

[C#] public object Deserialize(Stream stream);
[C++] public: Object* Deserialize(Stream* stream);
[VB] Public Function Deserialize(ByVal stream As Stream) As Object
[JScript] public function Deserialize(stream : Stream) : Object; Deserializes an LOS-formatted object.

Description

Deserializes a LOS-formatted object from a **System.IO.Stream** object. *Return Value:* Returns the deserialized object. The source of the object to be deserialized.

Deserialize

[C#] public object Deserialize(string input);
[C++] public: Object* Deserialize(String* input);
[VB] Public Function Deserialize(ByVal input As String) As Object
[JScript] public function Deserialize(input : String) : Object;

Description

Deserializes a LOS formatted object from a string. *Return Value:* Returns the deserialized object. The source of the object to be deserialized.

Deserialize

[C#] public object Deserialize(TextReader input);

[C++] public: Object* Deserialize(TextReader* input);
[VB] Public Function Deserialize(ByVal input As TextReader) As Object
[JScript] public function Deserialize(input : TextReader) : Object;

Description

Deserializes a LOS-formatted object from a **System.IO.TextReader** object.

Return Value: Returns the deserialized object. The source of the object to be deserialized.

Serialize

[C#] public void Serialize(Stream stream, object value);
[C++] public: void Serialize(Stream* stream, Object* value);
[VB] Public Sub Serialize(ByVal stream As Stream, ByVal value As Object)
[JScript] public function Serialize(stream : Stream, value : Object); Serializes the Web Forms view state value.

Description

Serializes the Web Forms view state value into a **System.IO.Stream** object. The object to serialize into. The view state information to pass.

Serialize

[C#] public void Serialize(TextWriter output, object value);
[C++] public: void Serialize(TextWriter* output, Object* value);
[VB] Public Sub Serialize(ByVal output As TextWriter, ByVal value As Object)

[JScript] public function Serialize(output : TextWriter, value : Object);

Description

Serializes the view state value into a **System.IO.TextWriter** object. The object to serialize into. The view state information to pass.

ObjectConverter class (System.Web.UI)

ToString

Description

ObjectConverter

Example Syntax:

ToString

[C#] public ObjectConverter();

[C++] public: ObjectConverter();

[VB] Public Sub New()

[JScript] public function ObjectConverter();

ConvertValue

[C#] public static object ConvertValue(object value, Type toType, string formatString);

[C++] public: static Object* ConvertValue(Object* value, Type* toType, String* formatString);

[VB] Public Shared Function ConvertValue(ByVal value As Object, ByVal toType As Type, ByVal formatString As String) As Object

[JScript] public static function ConvertValue(value : Object, toType : Type, formatString : String) : Object;

Description

ObjectTagBuilder class (System.Web.UI)

ToString

Description

ObjectTagBuilder

Example Syntax:

ToString

[C#] public ObjectTagBuilder();

[C++] public: ObjectTagBuilder();

[VB] Public Sub New()

[JScript] public function ObjectTagBuilder();

ControlType

FChildrenAsProperties

FIsNonParserAccessor

HasAspCode

ID

InDesigner

NamingContainerType

Parser

TagName

AppendLiteralString

[C#] public override void AppendLiteralString(string s);

[C++] public: void AppendLiteralString(String* s);

[VB] Overrides Public Sub AppendLiteralString(ByVal s As String)

[JScript] public override function AppendLiteralString(s : String);

Description

AppendSubBuilder

[C#] public override void AppendSubBuilder(ControlBuilder subBuilder);

[C++] public: void AppendSubBuilder(ControlBuilder* subBuilder);

[VB] Overrides Public Sub AppendSubBuilder(ByVal subBuilder As ControlBuilder)

[JScript] public override function AppendSubBuilder(subBuilder : ControlBuilder);

Description

Init

[C#] public override void Init(TemplateParser parser, ControlBuilder parentBuilder, Type type, string tagName, string id, IDictionary attribs);

[C++] public: void Init(TemplateParser* parser, ControlBuilder* parentBuilder,

Type* type, String* tagName, String* id, IDictionary* attribs);
[VB] Overrides Public Sub Init(ByVal parser As TemplateParser, ByVal parentBuilder As ControlBuilder, ByVal type As Type, ByVal tagName As String, ByVal id As String, ByVal attribs As IDictionary)
[JScript] public override function Init(parser : TemplateParser, parentBuilder : ControlBuilder, type : Type, tagName : String, id : String, attribs : IDictionary);

Description

OutputCacheLocation enumeration (System.Web.UI)

ToString

Description

Specifies the valid values for the location of the output cache.

The values specified by this enumeration are used when you include an @ OutputCache directive in a .aspx file. These values set the cacheability of page output. For more information, see .

ToString

[C#] public const OutputCacheLocation Any;
[C++] public: const OutputCacheLocation Any;
[VB] Public Const Any As OutputCacheLocation
[JScript] public var Any : OutputCacheLocation;

Description

The output cache can be located on the browser client where the request originated, on a proxy server (or any other server) participating in the request, or on the server where the request was processed.

ToString

[C#] public const OutputCacheLocation Client;

[C++] public: const OutputCacheLocation Client;

[VB] Public Const Client As OutputCacheLocation

[JScript] public var Client : OutputCacheLocation;

Description

The output cache is located on the browser client where the request originated.

ToString

[C#] public const OutputCacheLocation Downstream;

[C++] public: const OutputCacheLocation Downstream;

[VB] Public Const Downstream As OutputCacheLocation

[JScript] public var Downstream : OutputCacheLocation;

Description

The output cache can be stored in any HTTP 1.1 cache-capable devices other than the origin server. This include proxy servers and the clietn that made the request.

ToString

```
[C#] public const OutputCacheLocation None;
[C++] public: const OutputCacheLocation None;
[VB] Public Const None As OutputCacheLocation
[JScript] public var None : OutputCacheLocation;
```

Description

The output cache is disabled for the requested page.

ToString

```
[C#] public const OutputCacheLocation Server;
[C++] public: const OutputCacheLocation Server;
[VB] Public Const Server As OutputCacheLocation
[JScript] public var Server : OutputCacheLocation;
```

Description

The output cache is located on the Web server where the request was processed.

Page class (System.Web.UI)

ToString

Description

Represents an .aspx file requested from a server that hosts an ASP.NET Web application.

The **Page** class is associated with files that have an .aspx extension. These files are compiled at runtime as a **Page** object and cached in server memory.

ToString

```
[C#] protected const string postEventArgumentID;
[C++] protected: const String* postEventArgumentID;
[VB] Protected Const postEventArgumentID As String
[JScript] protected var postEventArgumentID : String;
```

Description

ToString

```
[C#] protected const string postEventSourceID;
[C++] protected: const String* postEventSourceID;
[VB] Protected Const postEventSourceID As String
[JScript] protected var postEventSourceID : String;
```

Description

Page

Example Syntax:

ToString

```
[C#] public Page();
[C++] public: Page();
[VB] Public Sub New()
```

[JScript] public function Page();

Description

Initializes a new instance of the **System.Web.UI.Page** class.

The default constructor initializes all fields to their default values.

Application

ToString

[C#] public HttpApplicationState Application {get;}

[C++] public: __property HttpApplicationState* get_Application();

[VB] Public ReadOnly Property Application As HttpApplicationState

[JScript] public function get Application() : HttpApplicationState;

Description

Gets the **Application** object for the current Web request.

AspCompatMode

ToString

[C#] bool AspCompatMode {set;}

[C++] protected: __property void set_AspCompatMode(bool);

[VB] Property AspCompatMode As Boolean

[JScript] protected function set AspCompatMode(Boolean);

Description

Sets a value indicating whether the page can be executed on a single-threaded apartment (STA) thread.

When set to **true** , this allows the page to be executed on a single-threaded apartment (STA) thread. This allows the page to call STA components, such as components developed with Visual Basic 6.0. Setting this to **true** also allows the page to call COM+ 1.0 components that require access to the unmanaged ASP built-in objects. These are accessible through the ASP **ObjectContext** object or the **OnStartPage** method.

AutoHandlers

Buffer

ToString

Description

Sets a value indicating whether the page output is buffered.

In most circumstances, do not set this property in code. Set the **buffer** attribute to **true** using the directive in the .aspx file. When the page is requested, the dynamically generated class sets the property.

Cache

ToString

```
[C#] public Cache Cache {get;}
[C++] public: __property Cache* get_Cache();
[VB] Public ReadOnly Property Cache As Cache
[JScript] public function get Cache() : Cache;
```

Description

Gets the **System.Web.Caching.Cache** object associated with the application in which the page resides.

An application's **Cache** object allows you to store and retrieve arbitrary data on subsequent requests . The cache is not specifically associated with a page or user session. It is used primarily to enhance application performance. For more information, see .

ChildControlsCreated

ClientID

ClientTarget

ToString

Description

Gets or sets a value that allows you to override automatic detection of browser capabilities and to specify how a page renders for particular browser clients.

If you do not set this property, the **System.Web.HttpBrowserCapabilities** object associated with the **System.Web.UI.Page.Request** property reflects the capabilities of the client browser.

CodePage

ToString

[C#] int CodePage {set;}

[C++] protected: __property void set_CodePage(int);

[VB] Property CodePage As Integer

[JScript] protected function set CodePage(int);

Description

Sets the code page identifier for the current **System.Web.UI.Page** .

In most circumstances, do not set this property in code. Set the **CodePage** attribute to the value you want using the directive in the .aspx file. When the page is requested, the dynamically generated class sets the property.

ContentType

ToString

[C#] string ContentType {set;}

[C++] protected: __property void set_ContentType(String*);

[VB] Property ContentType As String

[JScript] protected function set ContentType(String);

Description

Sets the HTTP MIME type for the **System.Web.HttpResponse** object associated with the page.

In most circumstances, do not set this property in code. Set the **ContentType** attribute using the directive in the .aspx file. When the page is requested, the dynamically generated class sets the property.

Context

ToString

```
[C#] protected override HttpContext Context {get;}
[C++] protected: __property virtual HttpContext* get_Context();
[VB] Overrides Protected ReadOnly Property Context As HttpContext
[JScript] protected function get Context() : HttpContext;
```

Description

Gets the **System.Web.HttpContext** object associated with the page.

This property provides programmatic access to the context the page runs in, including information about the request, response, session and application.

Controls

Culture

ToString

Description

Sets the culture ID for the **System.Threading.Thread** object associated with the page.

In most circumstances, do not set this property in code. Set the **Culture** attribute in the directive in the .aspx file. When the page is requested, the dynamically generated class sets the property.

EnableViewState

ToString

```
[C#] public override bool EnableViewState {get; set;}
```

[C++] public: __property virtual bool get_EnableViewState();public: __property virtual void set_EnableViewState(bool);

[VB] Overrides Public Property EnableViewState As Boolean

[JScript] public function get EnableViewState() : Boolean;public function set EnableViewState(Boolean);

Description

Gets or sets a value indicating whether the page maintains its view state, and the view state of any server controls it contains, when the current page request ends.

EnableViewStateMac

ToString

[C#] protected bool EnableViewStateMac {get; set;}

[C++] protected: __property bool get_EnableViewStateMac();protected: __property void set_EnableViewStateMac(bool);

[VB] Protected Property EnableViewStateMac As Boolean

[JScript] protected function get EnableViewStateMac() : Boolean;protected function set EnableViewStateMac(Boolean);

Description

Gets or sets a value indicating whether ASP.NET should run a machine authentication check (MAC) on the page's view state when the page is posted back from the client.

In most circumstances, do not set this property in code. Set the **EnableViewStateMac** attribute to **true** using the directive in the .aspx file. When the page is requested, the dynamically generated class sets the property.

ErrorPage

ToString

[C#] public string ErrorPage {get; set;}

[C++] public: __property String* get_ErrorPage();public: __property void set_ErrorPage(String*);

[VB] Public Property ErrorPage As String

[JScript] public function get ErrorPage() : String;public function set ErrorPage(String);

Description

Gets or sets the error page to which the requesting browser should be redirected in the event of an unhandled page exception.

Events

FileDependencies

ToString

Description

Sets an array of files that the current **System.Web.HttpResponse** object is dependent upon.

In most circumstances, do not set this property in code. Set the **FileDependencies** attribute to **true** using the directive in the .aspx file. When the page is requested, the dynamically generated class sets the property.

HasChildViewState

ID

ToString

Description

Gets or sets an identifier for a particular instance of the **System.Web.UI.Page** class.

IsPostBack

ToString

```
[C#] public bool IsPostBack {get;}
[C++] public: __property bool get_IsPostBack();
[VB] Public ReadOnly Property IsPostBack As Boolean
[JScript] public function get IsPostBack() : Boolean;
```

Description

Gets a value indicating whether the page is being loaded in response to a client postback, or if it is being loaded and accessed for the first time.

IsReusable

ToString

```
[C#] public bool IsReusable {get;}
[C++] public: __property bool get_IsReusable();
[VB] Public ReadOnly Property IsReusable As Boolean
[JScript] public function get IsReusable() : Boolean;
```

Description

Page class can be cached/reused

IsTrackingViewState

IsValid

ToString

Description

Gets a value indicating whether page validation succeeded.

For this property to return **true** , all validation server controls in the **System.Web.UI.Page.Validators** property must validate successfully.

LCID

ToString

```
[C#] int LCID {set;}
[C++] protected: __property void set_LCID(int);
[VB] Property LCID As Integer
[JScript] protected function set LCID(int);
```

Description

Sets the locale identifier for the **System.Threading.Thread** object associated with the page.

In most circumstances, do not set this property in code. Set the **LCID** attribute in the directive in the .aspx file. When the page is requested, the dynamically generated class sets the property.

NamingContainer

Page

Parent

Request

ToString

Description

Gets the **System.Web.HttpRequest** object for the requested page.

The **Request** object contains information about current incoming HTTP request.

Response

ToString

```
[C#] public HttpResponse Response {get;}
[C++] public: __property HttpResponse* get_Response();
[VB] Public ReadOnly Property Response As HttpResponse
[JScript] public function get Response() : HttpResponse;
```

Description

Gets the **System.Web.HttpResponse** object associated with the **System.Web.UI.Page** . This object allows you to send HTTP response data to a client, and contains information about that response.

ResponseEncoding

ToString

[C#] string ResponseEncoding {set;}

[C++] protected: __property void set_ResponseEncoding(String*);

[VB] Property ResponseEncoding As String

[JScript] protected function set ResponseEncoding(String);

Description

Sets the encoding language for the current **System.Web.HttpResponse** object.

In most circumstances, do not set this property in code. Set the **ResponseEncoding** attribute to the value you want using the directive in the .aspx file. When the page is requested, the dynamically generated class sets the property.

Server

ToString

[C#] public HttpServerUtility Server {get;}

[C++] public: __property HttpServerUtility* get_Server();

[VB] Public ReadOnly Property Server As HttpServerUtility

[JScript] public function get Server() : HttpServerUtility;

Description

Gets the **Server** object, which is an instance of the **System.Web.HttpServerUtility** class.

This property provides access to the frequently used **System.Web.HttpServerUtility.HtmlEncode(System.String)** and **System.Web.HttpServerUtility.MapPath(System.String)** methods, among others.

Session

ToString

[C#] public virtual HttpSessionState Session {get;}
[C++] public: __property virtual HttpSessionState* get_Session();
[VB] Overridable Public ReadOnly Property Session As HttpSessionState
[JScript] public function get Session() : HttpSessionState;

Description

Gets the current **Session** object provided by ASP.NET.

This property provides information about the current request's session. A **Session** object is maintained for each user that requests a page or document from an ASP.NET application. Variables stored in the **Session** object are not discarded when the user moves from page to page in the application; instead, these variables persist as long as the user is accessing pages in your application. For more information about session state, see .

Site

SmartNavigation

ToString

Description

Gets or sets a value indicating whether smart navigation is enabled.

In most circumstances, do not set this property in code. Set the **SmartNavigation** attribute to **true** in the directive in the .aspx file. When the page is requested, the dynamically generated class sets this property.

SupportAutoEvents

TemplateSourceDirectory

Trace

ToString

Description

Gets the **System.Web.TraceContext** object for the current Web request.

Tracing tracks and presents the execution details about a Web request. For trace data to be visible in a rendered page, you must enable tracing at the page or application level.

TraceEnabled

ToString

[C#] bool TraceEnabled {set;}

[C++] protected: __property void set_TraceEnabled(bool);
[VB] Property TraceEnabled As Boolean
[JScript] protected function set TraceEnabled(Boolean);

Description

Sets a value indicating whether tracing is enabled for the **System.Web.UI.Page** .

In most circumstances, do not set this property in code. Set the **Trace** attribute to **true** in the directive in the .aspx file. When the page is requested, the dynamically generated class sets the property.

TraceModeValue

ToString

[C#] TraceMode TraceModeValue {set;}
[C++] protected: __property void set_TraceModeValue(TraceMode);
[VB] Property TraceModeValue As TraceMode
[JScript] protected function set TraceModeValue(TraceMode);

Description

Sets the mode in which trace statements are displayed on the page.

In most circumstances, do not set this property in code. Set the **TraceMode** attribute in the directive in the .aspx file. When the page is requested, the dynamically generated class sets the property.

TransactionMode

ToString

```
[C#] int TransactionMode {set;}
[C++] protected: __property void set_TransactionMode(int);
[VB] Property TransactionMode As Integer
[JScript] protected function set TransactionMode(int);
```

Description

Sets the level of transaction support for the page.

In most circumstances, do not set this property in code. Set the **Transaction** attribute in the directive in the .aspx file. When the page is requested, the dynamically generated class sets the property.

UICulture

ToString

```
[C#] string UICulture {set;}
[C++] protected: __property void set_UICulture(String*);
[VB] Property UICulture As String
[JScript] protected function set UICulture(String);
```

Description

Sets the UI ID for the **System.Threading.Thread** object associated with the page.

This property is a shortcut for **System.Threading.Thread.CurrentThread** . The culture is a property of the executing thread

UniqueID

User

ToString

Description

Gets information about the user making the page request.

An **IPrincipal** object represents the security context of the user on whose behalf the code is running, including that user's identity and any roles to which they belong.

Validators

ToString

```
[C#] public ValidatorCollection Validators {get;}
[C++] public: __property ValidatorCollection* get_Validators();
[VB] Public ReadOnly Property Validators As ValidatorCollection
[JScript] public function get Validators() : ValidatorCollection;
```

Description

Gets a collection of all validation controls contained on the requested page.

ViewState

ViewStateIgnoresCase

Visible

ToString

Description

Gets or sets a value indicating whether the **System.Web.UI.Page** object should be rendered.

AspCompatBeginProcessRequest

[C#] protected IAsyncResult AspCompatBeginProcessRequest(HttpContext context, AsyncCallback cb, object extraData);
[C++] protected: IAsyncResult* AspCompatBeginProcessRequest(HttpContext* context, AsyncCallback* cb, Object* extraData);
[VB] Protected Function AspCompatBeginProcessRequest(ByVal context As HttpContext, ByVal cb As AsyncCallback, ByVal extraData As Object) As IAsyncResult
[JScript] protected function AspCompatBeginProcessRequest(context : HttpContext, cb : AsyncCallback, extraData : Object) : IAsyncResult;

Description

Initiates a request for Active Server Page (ASP) resources. This method is provided for compatibility with legacy ASP applications.

Do not call this method. An **System.Web.HttpContext** object with information about the current request. The callback method. Any extra data needed to process the request in the same manner as an ASP request.

AspCompatEndProcessRequest

[C#] protected void AspCompatEndProcessRequest(IAsyncResult result);
[C++] protected: void AspCompatEndProcessRequest(IAsyncResult* result);
[VB] Protected Sub AspCompatEndProcessRequest(ByVal result As IAsyncResult)
[JScript] protected function AspCompatEndProcessRequest(result : IAsyncResult);

Description

Terminates a request for Active Server Page (ASP) resources. This method is provided for compatibility with legacy ASP applications.

Do not call this method. The ASP page generated by the request.

CreateHtmlTextWriter

[C#] protected virtual HtmlTextWriter CreateHtmlTextWriter(TextWriter tw);
[C++] protected: virtual HtmlTextWriter* CreateHtmlTextWriter(TextWriter* tw);
[VB] Overridable Protected Function CreateHtmlTextWriter(ByVal tw As TextWriter) As HtmlTextWriter
[JScript] protected function CreateHtmlTextWriter(tw : TextWriter) : HtmlTextWriter;

Description

Creates an **System.Web.UI.HtmlTextWriter** object to render the page's content.

Return Value: The specified **System.Web.UI.HtmlTextWriter** or **System.Web.UI.Html32TextWriter** object.

The object created is based on information from the **System.Web.HttpBrowserCapabilities** object associated with the page request. Usually, this object is an **System.Web.UI.HtmlTextWriter** or **System.Web.UI.Html32TextWriter** object. For derived pages, you can override this method to create a custom text writer Creates an **System.Web.UI.HtmlTextWriter** object to render the page's content. If the **IsUplevel** property is set to **false** , an **Html32TextWriter** object is created to render requests originating from downlevel browsers. For derived pages, you can override this method to create a custom text writer. The text writer to create.

DesignerInitialize

[C#] public void DesignerInitialize();
[C++] public: void DesignerInitialize();
[VB] Public Sub DesignerInitialize()
[JScript] public function DesignerInitialize();

Description

Performs any initialization of the instance of the **System.Web.UI.Page** class that is required by RAD designers. This method is only used at design time.

DeterminePostBackMode

[C#] protected virtual NameValueCollection DeterminePostBackMode();
[C++] protected: virtual NameValueCollection* DeterminePostBackMode();

[VB] Overridable Protected Function DeterminePostBackMode() As NameValueCollection

[JScript] protected function DeterminePostBackMode() : NameValueCollection;

Description

Determines the type of request made for the **Page** class. This information is based on whether the page was posted back, and whether the GET or POST HTTP method was used for the request. *Return Value:* If the postback used the POST method, the Form information is returned from the **Context** object. If the postback used the GET method, the query string information is returned. If the page is being requested for the first time, **null** is returned.

GetPostBackClientEvent

[C#] public string GetPostBackClientEvent(Control control, string argument);

[C++] public: String* GetPostBackClientEvent(Control* control, String* argument);

[VB] Public Function GetPostBackClientEvent(ByVal control As Control, ByVal argument As String) As String

[JScript] public function GetPostBackClientEvent(control : Control, argument : String) : String;

Description

Obtains a reference to a client-side script function that causes, when invoked, a server postback to the form.

Return Value: The **String** that represents the client event. The server control that receives the client event postback. A **System.String** argument that is passed to the **System.Web.UI.IPostBackEventHandler.RaisePostBackEvent(System.String)** method.

GetPostBackClientHyperlink

[C#] public string GetPostBackClientHyperlink(Control control, string argument);
[C++] public: String* GetPostBackClientHyperlink(Control* control, String* argument);
[VB] Public Function GetPostBackClientHyperlink(ByVal control As Control, ByVal argument As String) As String
[JScript] public function GetPostBackClientHyperlink(control : Control, argument : String) : String;

Description

Appends **javascript:** to the beginning of the return from a **System.Web.UI.Page.GetPostBackEventReference(System.Web.UI.Control)** call to allow hyperlink post back processing on the server. *Return Value:* The name of the client-side function and the ID of the server control that processed the function and argument passed to the control. The server control to process the postback. The parameter passed to the server control.

GetPostBackEventReference

[C#] public string GetPostBackEventReference(Control control);
[C++] public: String* GetPostBackEventReference(Control* control);

[VB] Public Function GetPostBackEventReference(ByVal control As Control) As String

[JScript] public function GetPostBackEventReference(control : Control) : String;

Obtains a reference to a client-side script function that causes, when invoked, the server to postback to the page.

Description

Obtains a reference to a client-side script function that causes, when invoked, the server to postback to the page. *Return Value:* The text of the client-side function call that can be inserted into a client-side event handler. The server control to process the postback on the server.

GetPostBackEventReference

[C#] public string GetPostBackEventReference(Control control, string argument);

[C++] public: String* GetPostBackEventReference(Control* control, String* argument);

[VB] Public Function GetPostBackEventReference(ByVal control As Control, ByVal argument As String) As String

[JScript] public function GetPostBackEventReference(control : Control, argument : String) : String;

Description

Obtains a reference to a client-side script function that causes, when invoked, the server to postback to the page. It also passes a parameter to the server control that performs the postback processing on the server.

Return Value: The text of the client-side function call that can be inserted into a client-side event handler. The server control to process the postback. The parameter passed to the server control.

GetTypeHashCode

[C#] public virtual int GetTypeHashCode();
[C++] public: virtual int GetTypeHashCode();
[VB] Overridable Public Function GetTypeHashCode() As Integer
[JScript] public function GetTypeHashCode() : int;

Description

Retrieves a hash code that is generated by **Page** objects that are generated at run time. This hash code is unique to the **Page** object's control hierarchy. *Return Value:* The hash code generated at run time. The default is 0.

InitOutputCache

[C#] protected virtual void InitOutputCache(int duration, string varyByHeader, string varyByCustom, OutputCacheLocation location, string varyByParam);
[C++] protected: virtual void InitOutputCache(int duration, String* varyByHeader, String* varyByCustom, OutputCacheLocation location, String* varyByParam);
[VB] Overridable Protected Sub InitOutputCache(ByVal duration As Integer, ByVal varyByHeader As String, ByVal varyByCustom As String, ByVal location As OutputCacheLocation, ByVal varyByParam As String)
[JScript] protected function InitOutputCache(duration : int, varyByHeader : String,

varyByCustom : String, location : OutputCacheLocation, varyByParam : String);

Description

Initializes the output cache for the current page request.

You should not call this method. To enable and manipulate output caching for a page, use either the directive in the .aspx file, or the methods and properties of the **System.Web.HttpCachePolicy** class. The latter are accessible through **Response.Cache** syntax in the page's code-declaration block or code-behind file. For more information, see . An integer representing the amount of time that objects stored in the output cache are valid. A semi-colon separated list of headers that content from the output cache will vary by. A string that represents the **Vary** HTTP header. The location of the output cache as specified by the **System.Web.UI.OutputCacheLocation** enumeration. A semi-colon separated list of parameters, received by a GET or POST method, that content from the output cache will vary by.

IsClientScriptBlockRegistered

[C#] public bool IsClientScriptBlockRegistered(string key);
[C++] public: bool IsClientScriptBlockRegistered(String* key);
[VB] Public Function IsClientScriptBlockRegistered(ByVal key As String) As Boolean
[JScript] public function IsClientScriptBlockRegistered(key : String) : Boolean;

Description

Determines if the client script block is registered with the page. *Return Value:* Returns **true** if the script block is registered; otherwise, **false** .

Call this method before calling **System.Web.UI.Page.RegisterClientScriptBlock(System.String,System.String**) to avoid unnecessarily assembling the client-side script. This particularly important if the script requires a large amount of server resources to create. The string key of the client script to search for.

IsStartupScriptRegistered

[C#] public bool IsStartupScriptRegistered(string key);
[C++] public: bool IsStartupScriptRegistered(String* key);
[VB] Public Function IsStartupScriptRegistered(ByVal key As String) As Boolean
[JScript] public function IsStartupScriptRegistered(key : String) : Boolean;

Description

Determines if the client startup script is registered with the **System.Web.UI.Page** object. *Return Value:* **true** if the startup script is registered; otherwise, **false** .

Call this method before calling **System.Web.UI.Page.RegisterStartupScript(System.String,System.String)** to avoid unnecessarily assembling the client-side script. This particularly important if the script requires a large amount of server resources to create. The string key of the startup script to search for.

LoadPageStateFromPersistenceMedium

```
[C#] protected virtual object LoadPageStateFromPersistenceMedium();
[C++] protected: virtual Object* LoadPageStateFromPersistenceMedium();
[VB] Overridable Protected Function LoadPageStateFromPersistenceMedium() As Object
[JScript] protected function LoadPageStateFromPersistenceMedium() : Object;
```

Description

Loads any saved view-state information to the **System.Web.UI.Page** object. Override this method if you want to load the **Page** view state in anything other than a hidden field. *Return Value:* The saved view state.

If you want to specify something other than hidden fields to save view state when using this method, you must also override the **SaveStateToPersistenceMedium** method.

MapPath

```
[C#] public string MapPath(string virtualPath);
[C++] public: String* MapPath(String* virtualPath);
[VB] Public Function MapPath(ByVal virtualPath As String) As String
[JScript] public function MapPath(virtualPath : String) : String;
```

Description

Retrieves the physical path that a virtual path, either absolute or relative, maps to.

Return Value: The physical path associated with the virtual path. A **System.String** that represents the virtual path.

ProcessRequest

[C#] public void ProcessRequest(HttpContext context);

[C++] public: __sealed void ProcessRequest(HttpContext* context);

[VB] NotOverridable Public Sub ProcessRequest(ByVal context As HttpContext)

[JScript] public function ProcessRequest(context : HttpContext);

Description

RaisePostBackEvent

[C#] protected virtual void RaisePostBackEvent(IPostBackEventHandler sourceControl, string eventArgument);

[C++] protected: virtual void RaisePostBackEvent(IPostBackEventHandler* sourceControl, String* eventArgument);

[VB] Overridable Protected Sub RaisePostBackEvent(ByVal sourceControl As IPostBackEventHandler, ByVal eventArgument As String)

[JScript] protected function RaisePostBackEvent(sourceControl : IPostBackEventHandler, eventArgument : String);

Description

Notifies the server control that caused postback that it should handle an incoming postback event.

The **Page** calls this when a post back occurs. This occurs in the page lifecycle after loading and change notification have completed, but before prerendering occurs. The ASP.NET server control that caused postback. This control must implement the **IPostBackEventHandler** interface. The post back argument.

RegisterArrayDeclaration

[C#] public void RegisterArrayDeclaration(string arrayName, string arrayValue);
[C++] public: void RegisterArrayDeclaration(String* arrayName, String* arrayValue);
[VB] Public Sub RegisterArrayDeclaration(ByVal arrayName As String, ByVal arrayValue As String)
[JScript] public function RegisterArrayDeclaration(arrayName : String, arrayValue : String);

Description

Declares a value that will be declared as an ECMAScript array declaration when the page renders. This can be used by script-based controls to declare themselves within an array so that a client script library can work with all the controls of the same type. The name of the array in which to declare the value. The value to place in the array.

RegisterClientScriptBlock

[C#] public virtual void RegisterClientScriptBlock(string key, string script);
[C++] public: virtual void RegisterClientScriptBlock(String* key, String* script);

[VB] Overridable Public Sub RegisterClientScriptBlock(ByVal key As String, ByVal script As String)

[JScript] public function RegisterClientScriptBlock(key : String, script : String);

Description

Allows ASP.NET server controls to emit client-side script blocks into the **System.Web.UI.Page** .

The client-side script is emitted jut after the opening tag of the **Page** object's

Top of Form

element. The script block is emitted as you define to the output stream, so you must include both tags of the

Bottom of Form

System.Web.UI.Design

Description

The **System.Web.UI.Design** namespace contains classes that can be used to extend design-time support for Web Forms.

CalendarDataBindingHandler class (System.Web.UI.Design)

Description

Provides a data binding handler for calendar data.

Constructors:

CalendarDataBindingHandler

Example Syntax:

```
[C#] public CalendarDataBindingHandler();
[C++] public: CalendarDataBindingHandler();
[VB] Public Sub New()
[JScript] public function CalendarDataBindingHandler();
```

Methods:

DataBindControl

```
[C#] public override void DataBindControl(IDesignerHost designerHost, Control control);
[C++] public: void DataBindControl(IDesignerHost* designerHost, Control* control);
[VB] Overrides Public Sub DataBindControl(ByVal designerHost As IDesignerHost, ByVal control As Control)
[JScript] public override function DataBindControl(designerHost : IDesignerHost, control : Control);
```

Description

Adds this data binding to the specified control. The designer host for the document that contains the control. The control to add this data binding to.

ColorBuilder class (System.Web.UI.Design)

ToString

Description

Launches a color editor that allows a user to select a color.

The **System.Web.UI.Design.ColorBuilder.BuildColor(System.ComponentModel.IComponent,System.Windows.Forms.Control,System.String)** method launches a user interface for selecting a color value.

BuildColor

[C#] public static string BuildColor(IComponent component, Control owner, string initialColor);

[C++] public: static String* BuildColor(IComponent* component, Control* owner, String* initialColor);

[VB] Public Shared Function BuildColor(ByVal component As IComponent, ByVal owner As Control, ByVal initialColor As String) As String

[JScript] public static function BuildColor(component : IComponent, owner : Control, initialColor : String) : String;

Description

Launches a color editor to build a color.

Return Value: The color value, represented as a string in an HTML color format, or **null** if the builder service could not be retrieved.

The returned string, if other than **null** , indicates a color in a valid HTML color format. Valid formats include named colors and color codes in RGB format (#RRGGBB). The component whose site is to be used to access design-time services. The control used to parent the picker window. The initial color to be shown in the picker window.

ControlDesigner class (System.Web.UI.Design)

ToString

Description

Provides a base class for Web server control designers.

ControlDesigner

Example Syntax:

ToString

[C#] public ControlDesigner();

[C++] public: ControlDesigner();

[VB] Public Sub New()

[JScript] public function ControlDesigner();

Properties:

AllowResize

ToString

[C#] public virtual bool AllowResize {get;}

[C++] public: __property virtual bool get_AllowResize();

[VB] Overridable Public ReadOnly Property AllowResize As Boolean

[JScript] public function get AllowResize() : Boolean;

Description

Gets a value indicating whether or not the control can be resized.

AssociatedComponents

Behavior

Component

DataBindings

DesignTimeElement

DesignTimeElementView

ToString

Description

Gets the designer view control object for the designer.

DesignTimeHtmlRequiresLoadComplete

ToString

[C#] public virtual bool DesignTimeHtmlRequiresLoadComplete {get;}

[C++] public: __property virtual bool get_DesignTimeHtmlRequiresLoadComplete();

[VB] Overridable Public ReadOnly Property DesignTimeHtmlRequiresLoadComplete As Boolean

[JScript] public function get DesignTimeHtmlRequiresLoadComplete() : Boolean;

Description

Gets a value indicating whether the designer must have completed loading before the design time HTML can be used.

The default implementation returns **false** .

ID

ToString

[C#] public virtual string ID {get; set;}

[C++] public: __property virtual String* get_ID();public: __property virtual void set_ID(String*);

[VB] Overridable Public Property ID As String

[JScript] public function get ID() : String;public function set ID(String);

Description

Gets or sets the ID for the control designer.

InheritanceAttribute

Inherited

IsDirty

ToString

Description

Gets or sets a value indicating whether the Web server control has been marked as changed.

ReadOnly

ToString

[C#] public bool ReadOnly {get; set;}

[C++] public: __property bool get_ReadOnly();public: __property void set_ReadOnly(bool);

[VB] Public Property ReadOnly As Boolean

[JScript] public function get ReadOnly() : Boolean;public function set ReadOnly(Boolean);

Description

Gets or sets a value indicating whether the control's associated design surface is set to read-only.

ShadowProperties

ShouldCodeSerialize

Verbs

CreatePlaceHolderDesignTimeHtml

[C#] protected string CreatePlaceHolderDesignTimeHtml();

[C++] protected: String* CreatePlaceHolderDesignTimeHtml();

[VB] Protected Function CreatePlaceHolderDesignTimeHtml() As String

[JScript] protected function CreatePlaceHolderDesignTimeHtml() : String; Creates a simple HTML section for the control that can be used to display information related to the control at design-time when there is not enough information to display a meaningful representation of the control.

Description

Creates a simple HTML section for the control that can be used to display information related to the control at design-time when there is not enough information to display a meaningful representation of the control.

Return Value: A string containing place-holder design-time HTML.

This method returns a string containing HTML in a standard place-holder style that an empty control can display at design-time to provide some basic information about the control. The string that is returned contains the type of the control and its ID.

CreatePlaceHolderDesignTimeHtml

[C#] protected string CreatePlaceHolderDesignTimeHtml(string instruction);

[C++] protected: String* CreatePlaceHolderDesignTimeHtml(String* instruction);

[VB] Protected Function CreatePlaceHolderDesignTimeHtml(ByVal instruction As String) As String

[JScript] protected function CreatePlaceHolderDesignTimeHtml(instruction : String) : String;

Description

Creates a simple HTML section for the control, using the specified additional information, that can be used to display information related to the control at design-time when there is not enough information to display a meaningful representation of the control.

Return Value: A string containing place holder design-time HTML and the specified string.

This method returns a string containing HTML in a standard place-holder style that an empty control can display at design-time to provide some basic information about the control. The string that is returned contains the type of the control and its ID. A string conatining information to add to the HTML section.

GetDesignTimeHtml

[C#] public virtual string GetDesignTimeHtml();

[C++] public: virtual String* GetDesignTimeHtml();

[VB] Overridable Public Function GetDesignTimeHtml() As String

[JScript] public function GetDesignTimeHtml() : String;

Description

Gets the HTML to be used for the design-time representation of the control.

Return Value: The design-time HTML for the control.

GetEmptyDesignTimeHtml

[C#] protected virtual string GetEmptyDesignTimeHtml();

[C++] protected: virtual String* GetEmptyDesignTimeHtml();

[VB] Overridable Protected Function GetEmptyDesignTimeHtml() As String

[JScript] protected function GetEmptyDesignTimeHtml() : String;

Description

Gets the HTML to be used for the design-time representation of a blank control.

Return Value: The HTML used for the design-time representation of a blank control. This is the name of the component, by default.

The default behavior is to return a string containing the name of the component. This method is called by **System.Web.UI.Design.ControlDesigner.GetDesignTimeHtml** when there is no design-time HTML.

GetErrorDesignTimeHtml

[C#] protected virtual string GetErrorDesignTimeHtml(Exception e);

[C++] protected: virtual String* GetErrorDesignTimeHtml(Exception* e);

[VB] Overridable Protected Function GetErrorDesignTimeHtml(ByVal e As Exception) As String

[JScript] protected function GetErrorDesignTimeHtml(e : Exception) : String;

Description

Gets the HTML to be used for the design-time representation of the control after an error has been encountered.

Return Value: The HTML for the specified exception. The exception that occurred.

GetPersistInnerHtml

[C#] public virtual string GetPersistInnerHtml();

[C++] public: virtual String* GetPersistInnerHtml();

```
[VB] Overridable Public Function GetPersistInnerHtml() As String
[JScript] public function GetPersistInnerHtml() : String;
```

Description

Gets the persistable inner HTML.

Return Value: The persistable inner HTML.

Initialize

```
[C#] public override void Initialize(IComponent component);
[C++] public: void Initialize(IComponent* component);
[VB] Overrides Public Sub Initialize(ByVal component As IComponent)
[JScript] public override function Initialize(component : IComponent);
```

Description

Initializes the designer with the specified component.

This method is called by the designer host to establish the component being designed. The control element being designed.

IsPropertyBound

```
[C#] public bool IsPropertyBound(string propName);
[C++] public: bool IsPropertyBound(String* propName);
[VB] Public Function IsPropertyBound(ByVal propName As String) As Boolean
[JScript] public function IsPropertyBound(propName : String) : Boolean;
```

Description

Gets a value indicating whether the specified property is data-bound.

Return Value: **true** if the property is data bound; othwerise, **false** . The property to check for data binding.

OnBehaviorAttached

[C#] protected override void OnBehaviorAttached();

[C++] protected: void OnBehaviorAttached();

[VB] Overrides Protected Sub OnBehaviorAttached()

[JScript] protected override function OnBehaviorAttached();

Description

Called when the designer is attached to the behavior.

OnBindingsCollectionChanged

[C#] protected override void OnBindingsCollectionChanged(string propName);

[C++] protected: void OnBindingsCollectionChanged(String* propName);

[VB] Overrides Protected Sub OnBindingsCollectionChanged(ByVal propName As String)

[JScript] protected override function OnBindingsCollectionChanged(propName : String);

Description

Called when the data bindings collection changes.

This method is called when the bindings collection has been changed by an external caller. In Visual Studio.NET, this method is called by the WebFormDataTab. The property to test for changes in its bindings collection.

OnComponentChanged

```
[C#] public virtual void OnComponentChanged(object sender,
ComponentChangedEventArgs ce);
[C++] public: virtual void OnComponentChanged(Object* sender,
ComponentChangedEventArgs* ce);
[VB] Overridable Public Sub OnComponentChanged(ByVal sender As Object,
ByVal ce As ComponentChangedEventArgs)
[JScript] public function OnComponentChanged(sender : Object, ce :
ComponentChangedEventArgs);
```

Description

Called when the component changes.

This method is called when a property is changed. It allows the implementer to do any processing that may be needed after a property change. The object that is the source of the event. A **System.ComponentModel.Design.ComponentChangedEventArgs** object that provides data about the event.

OnControlResize

```
[C#] protected virtual void OnControlResize();
[C++] protected: virtual void OnControlResize();
```

[VB] Overridable Protected Sub OnControlResize()

[JScript] protected function OnControlResize();

Description

Called when the design-time control has been resized.

This method is typically only called by the design-time environment when a user action causes the control to be resized. This method may be called several times during a resize process to display the updated size of the control before the resize process is completed. The width and height properties of the control are updated before this method is called.

PreFilterProperties

[C#] protected override void PreFilterProperties(IDictionary properties);

[C++] protected: void PreFilterProperties(IDictionary* properties);

[VB] Overrides Protected Sub PreFilterProperties(ByVal properties As IDictionary)

[JScript] protected override function PreFilterProperties(properties : IDictionary);

RaiseResizeEvent

[C#] public void RaiseResizeEvent();

[C++] public: void RaiseResizeEvent();

[VB] Public Sub RaiseResizeEvent()

[JScript] public function RaiseResizeEvent();

Description

Raises the **System.Web.UI.Design.ControlDesigner.OnControlResize** event.

UpdateDesignTimeHtml

[C#] public virtual void UpdateDesignTimeHtml();

[C++] public: virtual void UpdateDesignTimeHtml();

[VB] Overridable Public Sub UpdateDesignTimeHtml()

[JScript] public function UpdateDesignTimeHtml();

Description

Updates the design-time HTML.

ControlParser class (System.Web.UI.Design)

UpdateDesignTimeHtml

Description

Provides methods for parsing the code for a control.

ParseControl

[C#] public static Control ParseControl(IDesignerHost designerHost, string controlText);

[C++] public: static Control* ParseControl(IDesignerHost* designerHost, String* controlText);

[VB] Public Shared Function ParseControl(ByVal designerHost As IDesignerHost, ByVal controlText As String) As Control

[JScript] public static function ParseControl(designerHost : IDesignerHost, controlText : String) : Control; Initializes a new instance of the **System.Web.UI.Design.ControlParser** class using the specified designer host and control text.

Description

Initializes a new instance of the **System.Web.UI.Design.ControlParser** class using the specified designer host and control text.

Return Value: The Control that the specified text represents, or **null** if the parser could not build the control. The designer host for the document. The text of the code for the control.

ParseControl

[C#] public static Control ParseControl(IDesignerHost designerHost, string controlText, string directives);

[C++] public: static Control* ParseControl(IDesignerHost* designerHost, String* controlText, String* directives);

[VB] Public Shared Function ParseControl(ByVal designerHost As IDesignerHost, ByVal controlText As String, ByVal directives As String) As Control

[JScript] public static function ParseControl(designerHost : IDesignerHost, controlText : String, directives : String) : Control;

Description

Initializes a new instance of the **System.Web.UI.Design.ControlParser** class using the specified designer host, control text and directives.

Return Value: The Control that the specified text represents, or **null** if the parser could not build the control. The designer host of the document. The text of the code for the control. The directives to include in the code for the control.

ParseTemplate

[C#] public static ITemplate ParseTemplate(IDesignerHost designerHost, string templateText);

[C++] public: static ITemplate* ParseTemplate(IDesignerHost* designerHost, String* templateText);

[VB] Public Shared Function ParseTemplate(ByVal designerHost As IDesignerHost, ByVal templateText As String) As ITemplate

[JScript] public static function ParseTemplate(designerHost : IDesignerHost, templateText : String) : ITemplate; Parses the specified text of a template.

Description

Parses the specified text of a template.

Return Value: A new template based on the specified text. The designer host of the document. The text of the code for a template.

ParseTemplate

[C#] public static ITemplate ParseTemplate(IDesignerHost designerHost, string templateText, string directives);

[C++] public: static ITemplate* ParseTemplate(IDesignerHost* designerHost, String* templateText, String* directives);

[VB] Public Shared Function ParseTemplate(ByVal designerHost As IDesignerHost, ByVal templateText As String, ByVal directives As String) As ITemplate

[JScript] public static function ParseTemplate(designerHost : IDesignerHost, templateText : String, directives : String) : ITemplate;

Description

Parses the specified text of a template.

Return Value: A new template based on the specified text. The designer host of the document. The text of the code for a template. Any directives to add to the beginning of the code for the template.

ControlPersister class (System.Web.UI.Design)

ToString

Description

Provides helper functions for persisting Web server controls.

PersistControl

[C#] public static string PersistControl(Control control);

[C++] public: static String* PersistControl(Control* control);

[VB] Public Shared Function PersistControl(ByVal control As Control) As String

[JScript] public static function PersistControl(control : Control) : String; Gets a string of persistence data that can persist a control.

Description

Gets a string of persistence data that can persist a control.

Return Value: A string that contains the information to persist about the control. The **System.Web.UI.Control** to persist.

PersistControl

[C#] public static string PersistControl(Control control, IDesignerHost host);

[C++] public: static String* PersistControl(Control* control, IDesignerHost* host);

[VB] Public Shared Function PersistControl(ByVal control As Control, ByVal host As IDesignerHost) As String

[JScript] public static function PersistControl(control : Control, host : IDesignerHost) : String;

Description

Gets a string of persistence data that can persist a control.

Return Value: A string that contains the information to persist about the control. The **System.Web.UI.Control** to persist. The designer host for the control.

PersistControl

[C#] public static void PersistControl(TextWriter sw, Control control);

[C++] public: static void PersistControl(TextWriter* sw, Control* control);

[VB] Public Shared Sub PersistControl(ByVal sw As TextWriter, ByVal control As Control)

[JScript] public static function PersistControl(sw : TextWriter, control : Control);

Description

Persists a control using the specified text writer. The **System.IO.TextWriter** to use. The **System.Web.UI.Control** to persist.

PersistControl

[C#] public static void PersistControl(TextWriter sw, Control control, IDesignerHost host);

[C++] public: static void PersistControl(TextWriter* sw, Control* control, IDesignerHost* host);

[VB] Public Shared Sub PersistControl(ByVal sw As TextWriter, ByVal control As Control, ByVal host As IDesignerHost)

[JScript] public static function PersistControl(sw : TextWriter, control : Control, host : IDesignerHost);

Description

Persists a control using the specified text writer. The **System.IO.TextWriter** to use. The **System.Web.UI.Control** to persist. The designer host for the control.

PersistInnerProperties

[C#] public static string PersistInnerProperties(object component, IDesignerHost host);

[C++] public: static String* PersistInnerProperties(Object* component, IDesignerHost* host);

[VB] Public Shared Function PersistInnerProperties(ByVal component As Object, ByVal host As IDesignerHost) As String

[JScript] public static function PersistInnerProperties(component : Object, host : IDesignerHost) : String; Gets a string of persistance data that can persist the inner properties of a control.

Description

Gets a string of persistance data that can persist the inner properties of a control.

Return Value: A string that contains the information to persist about the inner properties of the control. The **System.Web.UI.Control** to persist. The designer host of the control.

PersistInnerProperties

[C#] public static void PersistInnerProperties(TextWriter sw, object component, IDesignerHost host);

[C++] public: static void PersistInnerProperties(TextWriter* sw, Object* component, IDesignerHost* host);

[VB] Public Shared Sub PersistInnerProperties(ByVal sw As TextWriter, ByVal component As Object, ByVal host As IDesignerHost)

[JScript] public static function PersistInnerProperties(sw : TextWriter, component : Object, host : IDesignerHost);

Description

Persists the inner properties of the control using the specified text writer. The **System.IO.TextWriter** to use. The **System.Web.UI.Control** to persist. The designer host of the control.

DataBindingCollectionConverter class (System.Web.UI.Design)

ToString

Description

Provides a type converter to convert data binding collections to various other representations.

DataBindingCollectionConverter

Example Syntax:

ToString

[C#] public DataBindingCollectionConverter();

[C++] public: DataBindingCollectionConverter();

[VB] Public Sub New()

[JScript] public function DataBindingCollectionConverter();

ConvertTo

[C#] public override object ConvertTo(ITypeDescriptorContext context, CultureInfo culture, object value, Type destinationType);

[C++] public: Object* ConvertTo(ITypeDescriptorContext* context, CultureInfo* culture, Object* value, Type* destinationType);

[VB] Overrides Public Function ConvertTo(ByVal context As

ITypeDescriptorContext, ByVal culture As CultureInfo, ByVal value As Object, ByVal destinationType As Type) As Object

[JScript] public override function ConvertTo(context : ITypeDescriptorContext, culture : CultureInfo, value : Object, destinationType : Type) : Object;

Description

Converts a data binding collection to the specified type.

Return Value: The object produced by the type conversion. An **System.ComponentModel.ITypeDescriptorContext** that indicates the component or control the data binding collection belongs to. A **System.Globalization.CultureInfo** that can be used to provide additional culture information. The object to convert. The type to convert to.

DataBindingCollectionEditor class (System.Web.UI.Design)

ToString

Description

Provides user interface for editing a collection of data bindings.

DataBindingCollectionEditor

Example Syntax:

ToString

[C#] public DataBindingCollectionEditor();

[C++] public: DataBindingCollectionEditor();

[VB] Public Sub New()

[JScript] public function DataBindingCollectionEditor();

EditValue

[C#] public override object EditValue(ITypeDescriptorContext context, IServiceProvider provider, object value);

[C++] public: Object* EditValue(ITypeDescriptorContext* context, IServiceProvider* provider, Object* value);

[VB] Overrides Public Function EditValue(ByVal context As ITypeDescriptorContext, ByVal provider As IServiceProvider, ByVal value As Object) As Object

[JScript] public override function EditValue(context : ITypeDescriptorContext, provider : IServiceProvider, value : Object) : Object;

Description

Edits the value of the specified data binding collection using the specified service provider and context.

Return Value: The new collection. An **System.ComponentModel.ITypeDescriptorContext** that identifies the component or control the collection belongs to. The **System.IServiceProvider** to use. The collection to edit.

GetEditStyle

[C#] public override UITypeEditorEditStyle GetEditStyle(ITypeDescriptorContext context);

[C++] public: UITypeEditorEditStyle GetEditStyle(ITypeDescriptorContext* context);

[VB] Overrides Public Function GetEditStyle(ByVal context As ITypeDescriptorContext) As UITypeEditorEditStyle

[JScript] public override function GetEditStyle(context : ITypeDescriptorContext) : UITypeEditorEditStyle;

Description

Gets the editor stytle used by the **System.Web.UI.Design.DataBindingCollectionEditor.EditValue(System.ComponentModel.ITypeDescriptorContext,System.IServiceProvider,System.Object)** method.

Return Value: A **System.Drawing.Design.UITypeEditorEditStyle** that specifies the editor edit style of the component or control. An **System.ComponentModel.ITypeDescriptorContext** that identifies the component or control to retrieve the edit style for.

DataBindingHandler class (System.Web.UI.Design)

ToString

Description

Provides a base class for a data binding handler.

DataBindingHandler

Example Syntax:

ToString

```
[C#] protected DataBindingHandler();
[C++] protected: DataBindingHandler();
[VB] Protected Sub New()
[JScript] protected function DataBindingHandler();
```

DataBindControl

```
[C#] public abstract void DataBindControl(IDesignerHost designerHost, Control control);
[C++] public: virtual void DataBindControl(IDesignerHost* designerHost, Control* control) = 0;
[VB] MustOverride Public Sub DataBindControl(ByVal designerHost As IDesignerHost, ByVal control As Control)
[JScript] public abstract function DataBindControl(designerHost : IDesignerHost, control : Control);
```

Description

Adds this data binding to the specified control. The designer host of the document. The control to data bind to.

DataBindingValueUIHandler class (System.Web.UI.Design)

ToString

Description

Provides a UI handler for data binding values.

DataBindingValueUIHandler

Example Syntax:

ToString

[C#] public DataBindingValueUIHandler();

[C++] public: DataBindingValueUIHandler();

[VB] Public Sub New()

[JScript] public function DataBindingValueUIHandler();

OnGetUIValueItem

[C#] public void OnGetUIValueItem(ITypeDescriptorContext context, PropertyDescriptor propDesc, ArrayList valueUIItemList);

[C++] public: void OnGetUIValueItem(ITypeDescriptorContext* context, PropertyDescriptor* propDesc, ArrayList* valueUIItemList);

[VB] Public Sub OnGetUIValueItem(ByVal context As ITypeDescriptorContext, ByVal propDesc As PropertyDescriptor, ByVal valueUIItemList As ArrayList)

[JScript] public function OnGetUIValueItem(context : ITypeDescriptorContext, propDesc : PropertyDescriptor, valueUIItemList : ArrayList);

Description

Adds a data binding for the specified property and the specified value item list if the current control has data bindings and the current object does not already have a binding. An **System.ComponentModel.ITypeDescriptorContext** object that can provide additional context information. A

System.ComponentModel.PropertyDescriptor that represents the property to add a data binding for. A list of items that have data bindings.

DataFieldConverter class (System.Web.UI.Design)

ToString

Description

Provides a type converter that can retrieve a list of data fields that are accessible through the current component's selected data source, and convert a data field name to string.

System.Web.UI.Design.DataFieldConverter provides methods that can be used to do the following: Convert a data field name string to string.

DataFieldConverter

Example Syntax:

ToString

[C#] public DataFieldConverter();

[C++] public: DataFieldConverter();

[VB] Public Sub New()

[JScript] public function DataFieldConverter();

Description

Initializes a new instance of the **System.Web.UI.Design.DataFieldConverter** class.

CanConvertFrom

[C#] public override bool CanConvertFrom(ITypeDescriptorContext context, Type sourceType);

[C++] public: bool CanConvertFrom(ITypeDescriptorContext* context, Type* sourceType);

[VB] Overrides Public Function CanConvertFrom(ByVal context As ITypeDescriptorContext, ByVal sourceType As Type) As Boolean

[JScript] public override function CanConvertFrom(context : ITypeDescriptorContext, sourceType : Type) : Boolean;

Description

Gets a value indicating whether the converter can convert an object of the specified source type to the native type of the converter.

Return Value: **true** if the converter can perform the conversion; otherwise, **false** .

This method returns **true** if the source type is a string. Otherwise, this method always returns **false** . An **System.ComponentModel.ITypeDescriptorContext** that can be used to gain additional context information. A **System.Type** that represents the type you wish to convert from.

ConvertFrom

[C#] public override object ConvertFrom(ITypeDescriptorContext context, CultureInfo culture, object value);

[C++] public: Object* ConvertFrom(ITypeDescriptorContext* context, CultureInfo* culture, Object* value);

[VB] Overrides Public Function ConvertFrom(ByVal context As ITypeDescriptorContext, ByVal culture As CultureInfo, ByVal value As Object) As Object

[JScript] public override function ConvertFrom(context : ITypeDescriptorContext, culture : CultureInfo, value : Object) : Object;

Description

Converts the specified object to the native type of the converter.

Return Value: An **System.Object** that represents the specified object after conversion.

Override this method to provide your own conversion requirements. An **System.ComponentModel.ITypeDescriptorContext** that can be used to gain additional context information. A **System.Globalization.CultureInfo** that can be used to support localization features. The **System.Object** to convert.

GetStandardValues

[C#] public override StandardValuesCollection GetStandardValues(ITypeDescriptorContext context);

[C++] public: StandardValuesCollection* GetStandardValues(ITypeDescriptorContext* context);

[VB] Overrides Public Function GetStandardValues(ByVal context As ITypeDescriptorContext) As StandardValuesCollection

[JScript] public override function GetStandardValues(context : ITypeDescriptorContext) : StandardValuesCollection;

Description

Gets the data fields present within the selected data source if information about them is available.

Return Value: A **System.ComponentModel.TypeConverter.StandardValuesCollection** listing the standard accessible data sources. An **System.ComponentModel.ITypeDescriptorContext** indicating the component or control to get values for.

GetStandardValuesExclusive

[C#] public override bool GetStandardValuesExclusive(ITypeDescriptorContext context);

[C++] public: bool GetStandardValuesExclusive(ITypeDescriptorContext* context);

[VB] Overrides Public Function GetStandardValuesExclusive(ByVal context As ITypeDescriptorContext) As Boolean

[JScript] public override function GetStandardValuesExclusive(context : ITypeDescriptorContext) : Boolean;

Description

Gets a value indicating whether the collection of standard values returned from **System.ComponentModel.TypeConverter.GetStandardValues** is an exclusive list of all possible values.

Return Value: **true** if the

System.ComponentModel.TypeConverter.StandardValuesCollection returned from **System.ComponentModel.TypeConverter.GetStandardValues** is an all exclusive list of all possible values; **false** if other values are possible.

If the list is exclusive, such as in an enumeration data type, then no other values are valid. If the list is not exclusive, then there are other valid values besides the list of standard values that **System.ComponentModel.TypeConverter.GetStandardValues** provides. An **System.ComponentModel.ITypeDescriptorContext** that can be used to gain additional context information.

GetStandardValuesSupported

[C#] public override bool GetStandardValuesSupported(ITypeDescriptorContext context);

[C++] public: bool GetStandardValuesSupported(ITypeDescriptorContext* context);

[VB] Overrides Public Function GetStandardValuesSupported(ByVal context As ITypeDescriptorContext) As Boolean

[JScript] public override function GetStandardValuesSupported(context : ITypeDescriptorContext) : Boolean; Gets a value indicating whether the converter supports a standard set of values that can be picked from a list.

Description

Gets a value indicating whether the converter supports a standard set of values that can be picked from a list.

Return Value: **true** if

System.ComponentModel.TypeConverter.GetStandardValues can be called to find a common set of values the object supports; otherwise, **false** . An **System.ComponentModel.ITypeDescriptorContext** that can be used to gain additional context information.

DataMemberConverter class (System.Web.UI.Design)

ToString

Description

Provides a type converter that can retrieve a list of data members that are accessible through the current component's selected data source, and convert a data member name to string.

System.Web.UI.Design.DataMemberConverter provides methods that can do the following: Convert a data member name string to string.

DataMemberConverter

Example Syntax:

ToString

[C#] public DataMemberConverter();

[C++] public: DataMemberConverter();

[VB] Public Sub New()

[JScript] public function DataMemberConverter();

Description

Initializes a new instance of the **System.Web.UI.Design.DataFieldConverter** class.

CanConvertFrom

[C#] public override bool CanConvertFrom(ITypeDescriptorContext context, Type sourceType);

[C++] public: bool CanConvertFrom(ITypeDescriptorContext* context, Type* sourceType);

[VB] Overrides Public Function CanConvertFrom(ByVal context As ITypeDescriptorContext, ByVal sourceType As Type) As Boolean

[JScript] public override function CanConvertFrom(context : ITypeDescriptorContext, sourceType : Type) : Boolean;

Description

Gets a value indicating whether the converter can convert an object of the specified source type to the native type of the converter.

Return Value: **true** if the converter can perform the conversion; otherwise, **false** .

Override this method to provide your own conversion requirements. An **System.ComponentModel.ITypeDescriptorContext** that can be used to gain additional context information. A **System.Type** that represents the type you wish to convert from.

ConvertFrom

[C#] public override object ConvertFrom(ITypeDescriptorContext context, CultureInfo culture, object value);

[C++] public: Object* ConvertFrom(ITypeDescriptorContext* context, CultureInfo* culture, Object* value);

[VB] Overrides Public Function ConvertFrom(ByVal context As ITypeDescriptorContext, ByVal culture As CultureInfo, ByVal value As Object) As Object

[JScript] public override function ConvertFrom(context : ITypeDescriptorContext, culture : CultureInfo, value : Object) : Object;

Description

Converts the specified object to the native type of the converter.

Return Value: An **System.Object** that represents the specified object after conversion.

Override this method to provide your own conversion requirements. An **System.ComponentModel.ITypeDescriptorContext** that can be used to gain additional context information. A **System.Globalization.CultureInfo** that can be used to support localization features. The **System.Object** to convert.

GetStandardValues

[C#] public override StandardValuesCollection GetStandardValues(ITypeDescriptorContext context);

[C++] public: StandardValuesCollection* GetStandardValues(ITypeDescriptorContext* context);

[VB] Overrides Public Function GetStandardValues(ByVal context As ITypeDescriptorContext) As StandardValuesCollection

[JScript] public override function GetStandardValues(context :

ITypeDescriptorContext) : StandardValuesCollection;

Description

Gets the data members present within the selected data source, if information about them is available.

Return Value: A **System.ComponentModel.TypeConverter.StandardValuesCollection** listing the standard accessible data sources. An **System.ComponentModel.ITypeDescriptorContext** indicating the component or control to get values for.

GetStandardValuesExclusive

[C#] public override bool GetStandardValuesExclusive(ITypeDescriptorContext context);

[C++] public: bool GetStandardValuesExclusive(ITypeDescriptorContext* context);

[VB] Overrides Public Function GetStandardValuesExclusive(ByVal context As ITypeDescriptorContext) As Boolean

[JScript] public override function GetStandardValuesExclusive(context : ITypeDescriptorContext) : Boolean;

Description

Gets a value indicating whether the collection of standard values returned from **System.ComponentModel.TypeConverter.GetStandardValues** is an exclusive list of all possible values.

Return Value: **true** if the **System.ComponentModel.TypeConverter.StandardValuesCollection** returned from **System.ComponentModel.TypeConverter.GetStandardValues** is an exclusive list of possible values; **false** if other values are possible.

If the list is exclusive, such as in an enumeration data type, then no other values are valid. If the list is not exclusive, then there are other valid values besides the list of standard values that **System.ComponentModel.TypeConverter.GetStandardValues** provides. An **System.ComponentModel.ITypeDescriptorContext** that provides a format context.

GetStandardValuesSupported

[C#] public override bool GetStandardValuesSupported(ITypeDescriptorContext context);

[C++] public: bool GetStandardValuesSupported(ITypeDescriptorContext* context);

[VB] Overrides Public Function GetStandardValuesSupported(ByVal context As ITypeDescriptorContext) As Boolean

[JScript] public override function GetStandardValuesSupported(context : ITypeDescriptorContext) : Boolean; Gets a value indicating whether the converter supports a standard set of values that can be picked from a list.

Description

Gets a value indicating whether the converter supports a standard set of values that can be picked from a list.

Return Value: **true** if **System.ComponentModel.TypeConverter.GetStandardValues** should be called to find a common set of values the object supports; otherwise, **false** . An **System.ComponentModel.ITypeDescriptorContext** that can be used to gain additional context information.

DataSourceConverter class (System.Web.UI.Design)

ToString

Description

Provides a type converter that can retrieve a list of data sources accessible to the current component, and convert a data source name to string.

System.Web.UI.Design.DataSourceConverter provides methods that can be used to do the following: Convert a data source name string to string.

DataSourceConverter

Example Syntax:

ToString

[C#] public DataSourceConverter();

[C++] public: DataSourceConverter();

[VB] Public Sub New()

[JScript] public function DataSourceConverter();

Description

Initializes a new instance of the **System.Web.UI.Design.DataSourceConverter** class.

CanConvertFrom

[C#] public override bool CanConvertFrom(ITypeDescriptorContext context, Type sourceType);

[C++] public: bool CanConvertFrom(ITypeDescriptorContext* context, Type* sourceType);

[VB] Overrides Public Function CanConvertFrom(ByVal context As ITypeDescriptorContext, ByVal sourceType As Type) As Boolean

[JScript] public override function CanConvertFrom(context : ITypeDescriptorContext, sourceType : Type) : Boolean;

Description

Gets a value indicating whether the converter can convert an object of the specified source type to the native type of the converter.

Return Value: **true** if the converter can perform the conversion; otherwise, **false** .

Override this method to provide your own conversion requirements. An **System.ComponentModel.ITypeDescriptorContext** that can be used to gain additional context information. A **System.Type** that represents the type you wish to convert from.

ConvertFrom

[C#] public override object ConvertFrom(ITypeDescriptorContext context, CultureInfo culture, object value);

[C++] public: Object* ConvertFrom(ITypeDescriptorContext* context, CultureInfo* culture, Object* value);

[VB] Overrides Public Function ConvertFrom(ByVal context As ITypeDescriptorContext, ByVal culture As CultureInfo, ByVal value As Object) As Object

[JScript] public override function ConvertFrom(context : ITypeDescriptorContext, culture : CultureInfo, value : Object) : Object;

Description

Converts the specified object to the native type of the converter.

Return Value: An **System.Object** that represents the specified object after conversion.

Override this method to provide your own conversion requirements. An **System.ComponentModel.ITypeDescriptorContext** that can be used to gain additional context information. The **System.Globalization.CultureInfo** that can be used to support localization features. The **System.Object** to convert.

GetStandardValues

[C#] public override StandardValuesCollection GetStandardValues(ITypeDescriptorContext context);

[C++] public: StandardValuesCollection* GetStandardValues(ITypeDescriptorContext* context);

[VB] Overrides Public Function GetStandardValues(ByVal context As ITypeDescriptorContext) As StandardValuesCollection

[JScript] public override function GetStandardValues(context :

ITypeDescriptorContext) : StandardValuesCollection;

Description

Gets the standard data sources accessible to the control.

Return Value: A **System.ComponentModel.TypeConverter.StandardValuesCollection** listing the standard accessible data sources. An **System.ComponentModel.ITypeDescriptorContext** indicating the component or control to get values for.

GetStandardValuesExclusive

[C#] public override bool GetStandardValuesExclusive(ITypeDescriptorContext context);

[C++] public: bool GetStandardValuesExclusive(ITypeDescriptorContext* context);

[VB] Overrides Public Function GetStandardValuesExclusive(ByVal context As ITypeDescriptorContext) As Boolean

[JScript] public override function GetStandardValuesExclusive(context : ITypeDescriptorContext) : Boolean;

Description

Gets a value indicating whether the collection of standard values returned from **System.ComponentModel.TypeConverter.GetStandardValues** is an exclusive list of all possible values.

Return Value: **true** if the

System.ComponentModel.TypeConverter.StandardValuesCollection returned from **System.ComponentModel.TypeConverter.GetStandardValues** is an exclusive list of all possible values; **false** if other values are possible.

If the list is exclusive, such as in an enumeration data type, then no other values are valid. If the list is not exclusive, then there are other valid values besides the list of standard values that **System.ComponentModel.TypeConverter.GetStandardValues** provides. An **System.ComponentModel.ITypeDescriptorContext** that can be used to gain additional context information.

GetStandardValuesSupported

[C#] public override bool GetStandardValuesSupported(ITypeDescriptorContext context);

[C++] public: bool GetStandardValuesSupported(ITypeDescriptorContext* context);

[VB] Overrides Public Function GetStandardValuesSupported(ByVal context As ITypeDescriptorContext) As Boolean

[JScript] public override function GetStandardValuesSupported(context : ITypeDescriptorContext) : Boolean; Gets a value indicating whether the converter supports a standard set of values that can be picked from a list.

Description

Gets a value indicating whether the converter supports a standard set of values that can be picked from a list.

Return Value: **true** if

System.ComponentModel.TypeConverter.GetStandardValues should be called to find a common set of values the object supports; otherwise, **false** . An **System.ComponentModel.ITypeDescriptorContext** that can be used to gain additional context information.

DesignTimeData class (System.Web.UI.Design)

ToString

Description

Provides helper methods that can be used by control designers to generate sample data for use in design time databinding.

ToString

```
[C#] public static readonly EventHandler DataBindingHandler;
[C++] public: static EventHandler* DataBindingHandler;
[VB] Public Shared ReadOnly DataBindingHandler As EventHandler
[JScript] public static var DataBindingHandler : EventHandler;
```

CreateDummyDataTable

```
[C#] public static DataTable CreateDummyDataTable();
[C++] public: static DataTable* CreateDummyDataTable();
[VB] Public Shared Function CreateDummyDataTable() As DataTable
[JScript] public static function CreateDummyDataTable() : DataTable;
```

Description

Creates a datatable that contains sample data.

Return Value: A new **System.Data.DataTable** that contains 3 columns of type string.

CreateSampleDataTable

```
[C#] public static DataTable CreateSampleDataTable(IEnumerable
referenceData);
[C++] public: static DataTable* CreateSampleDataTable(IEnumerable*
referenceData);
[VB] Public Shared Function CreateSampleDataTable(ByVal referenceData As
IEnumerable) As DataTable
[JScript] public static function CreateSampleDataTable(referenceData :
IEnumerable) : DataTable;
```

Description

Creates a sample datatable with the same schema as the supplied datasource.

Return Value: A sample data table that contains dummy data in the format of the specified data source, or a default dummy data table if the specified data source contained no data columns. A data source with the schema to use as the format for the sample datatable.

GetDataFields

```
[C#] public static PropertyDescriptorCollection GetDataFields(IEnumerable
dataSource);
```

[C++] public: static PropertyDescriptorCollection* GetDataFields(IEnumerable* dataSource);

[VB] Public Shared Function GetDataFields(ByVal dataSource As IEnumerable) As PropertyDescriptorCollection

[JScript] public static function GetDataFields(dataSource : IEnumerable) : PropertyDescriptorCollection;

Description

Gets the data fields of the specified data source.

Return Value: A **System.ComponentModel.PropertyDescriptorCollection** that represents the data fields of the speciifed data source. The data source to retrieve the data fields of.

GetDataMember

[C#] public static IEnumerable GetDataMember(IListSource dataSource, string dataMember);

[C++] public: static IEnumerable* GetDataMember(IListSource* dataSource, String* dataMember);

[VB] Public Shared Function GetDataMember(ByVal dataSource As IListSource, ByVal dataMember As String) As IEnumerable

[JScript] public static function GetDataMember(dataSource : IListSource, dataMember : String) : IEnumerable;

Description

Gets the specified data member from the specified data source.

Return Value: The specified data member from the specified data source, if it exists.

This method searches the specified data source for the specified data member. If the *dataMember* property is **null** , the first item in the specified data source is returned. The data source that contains the member to retrieve. The data member to retrieve.

GetDataMembers

[C#] public static string[] GetDataMembers(object dataSource);

[C++] public: static String* GetDataMembers(Object* dataSource) __gc[];

[VB] Public Shared Function GetDataMembers(ByVal dataSource As Object) As String()

[JScript] public static function GetDataMembers(dataSource : Object) : String[];

Description

Gets the data members of the specified data source.

Return Value: A string array that represents the data members of the specified data source. The data source to retrieve the members of.

GetDesignTimeDataSource

[C#] public static IEnumerable GetDesignTimeDataSource(DataTable dataTable, int minimumRows);

[C++] public: static IEnumerable* GetDesignTimeDataSource(DataTable* dataTable, int minimumRows);

[VB] Public Shared Function GetDesignTimeDataSource(ByVal dataTable As DataTable, ByVal minimumRows As Integer) As IEnumerable

[JScript] public static function GetDesignTimeDataSource(dataTable : DataTable, minimumRows : int) : IEnumerable;

Description

Adds sample rows to the specified data table and returns the updated table.

Return Value: A live data source for use at design time. The table that defines the shape of the data source. Sample rows are added to this table. The minimum number of rows of sample data that the data source will contain.

GetSelectedDataSource

[C#] public static object GetSelectedDataSource(IComponent component, string dataSource);

[C++] public: static Object* GetSelectedDataSource(IComponent* component, String* dataSource);

[VB] Public Shared Function GetSelectedDataSource(ByVal component As IComponent, ByVal dataSource As String) As Object

[JScript] public static function GetSelectedDataSource(component : IComponent, dataSource : String) : Object; Gets the specified data source.

Description

Gets the specified data source.

Return Value: The data source object, or **null** if the data source, specified component's site, or the container of the data source could not be accessed. The component that contains the data source. The data source to retrieve.

GetSelectedDataSource

[C#] public static IEnumerable GetSelectedDataSource(IComponent component, string dataSource, string dataMember);

[C++] public: static IEnumerable* GetSelectedDataSource(IComponent* component, String* dataSource, String* dataMember);

[VB] Public Shared Function GetSelectedDataSource(ByVal component As IComponent, ByVal dataSource As String, ByVal dataMember As String) As IEnumerable

[JScript] public static function GetSelectedDataSource(component : IComponent, dataSource : String, dataMember : String) : IEnumerable;

Description

Gets the specified data member of the specified data source.

Return Value: The data member, or **null** if the data source could not be accessed. The component that contains the data source. The data source to retrieve. The data member to retrieve.

HtmlControlDesigner class (System.Web.UI.Design)

ToString

Description

Provides basic design-time functionality for ASP.NET server controls.

HtmlControlDesigner

Example Syntax:

ToString

```
[C#] public HtmlControlDesigner();
[C++] public: HtmlControlDesigner();
[VB] Public Sub New()
[JScript] public function HtmlControlDesigner();
```

Description

Initializes a new instance of the **System.Web.UI.Design.HtmlControlDesigner** class.

AssociatedComponents

Behavior

ToString

Description

Gets or sets the DHTML behavior associated with the designer instance.

Component

DataBindings

ToString

Description

Gets or sets the data bindings for the current control.

DesignTimeElement

ToString

```
[C#] protected object DesignTimeElement {get;}
[C++] protected: __property Object* get_DesignTimeElement();
[VB] Protected ReadOnly Property DesignTimeElement As Object
[JScript] protected function get DesignTimeElement() : Object;
```

Description

Gets the base Web Forms designer associated to the ASPX document.

InheritanceAttribute

Inherited

ShadowProperties

ShouldCodeSerialize

ToString

Description

Indicates whether a field declaration for the control should be created in the code-behind file for the current design document.

Verbs

Dispose

```
[C#] protected override void Dispose(bool disposing);
```

[C++] protected: void Dispose(bool disposing);

[VB] Overrides Protected Sub Dispose(ByVal disposing As Boolean)

[JScript] protected override function Dispose(disposing : Boolean);

Description

Releases the unmanaged resources used by the **System.Web.UI.Design.HtmlControlDesigner** and optionally releases the managed resources.

This method is called by the public **Dispose()** method and the **System.Object.Finalize** method. **true** to release both managed and unmanaged resources; **false** to release only unmanaged resources.

Description

Initializes the designer and sets the component for design.

System.Web.UI.Design.ControlDesigner.Initialize(System.ComponentModel.IComponent) should be called by the designer host to initialize the designer. The control element for design.

OnBehaviorAttached

[C#] protected virtual void OnBehaviorAttached();

[C++] protected: virtual void OnBehaviorAttached();

[VB] Overridable Protected Sub OnBehaviorAttached()

[JScript] protected function OnBehaviorAttached();

Description

Notification that is called when a behavior is attached to the designer.

OnBehaviorDetaching

[C#] protected virtual void OnBehaviorDetaching();

[C++] protected: virtual void OnBehaviorDetaching();

[VB] Overridable Protected Sub OnBehaviorDetaching()

[JScript] protected function OnBehaviorDetaching();

Description

Notification that is called when a behavior is detatched from the designer.

OnBindingsCollectionChanged

[C#] protected virtual void OnBindingsCollectionChanged(string propName);

[C++] protected: virtual void OnBindingsCollectionChanged(String* propName);

[VB] Overridable Protected Sub OnBindingsCollectionChanged(ByVal propName As String)

[JScript] protected function OnBindingsCollectionChanged(propName : String);

Description

Provides a method that can be used to indicate when a data binding has been changed.

This method should be called by a control designer after it has made a change to the data bindings for the control. The name of the property that has been changed.

OnSetParent

[C#] public virtual void OnSetParent();

[C++] public: virtual void OnSetParent();

[VB] Overridable Public Sub OnSetParent()

[JScript] public function OnSetParent();

Description

Notification that is called when the associated control is parented.

PreFilterEvents

[C#] protected override void PreFilterEvents(IDictionary events);

[C++] protected: void PreFilterEvents(IDictionary* events);

[VB] Overrides Protected Sub PreFilterEvents(ByVal events As IDictionary)

[JScript] protected override function PreFilterEvents(events : IDictionary);

Description

Allows a designer to filter the set of member events that the component it is designing will expose through a **System.ComponentModel.TypeDescriptor** object.

If you are overriding this method you should call the base implementation before you perform your own filtering. When overriding this method, it should return the augmented set of attributes. If the method does not modify any attributes, it may just return a reference to its input parameter. If you do make a change to the attributes, you must create a new array. The set of events for the component.

PreFilterProperties

[C#] protected override void PreFilterProperties(IDictionary properties);

[C++] protected: void PreFilterProperties(IDictionary* properties);

[VB] Overrides Protected Sub PreFilterProperties(ByVal properties As IDictionary)

[JScript] protected override function PreFilterProperties(properties : IDictionary);

Description

Allows a designer to filter the set of member attributes that the component it is designing will expose through a **System.ComponentModel.TypeDescriptor** object.

If you are overriding this method you should call the base implementation before you perform your own filtering. When overriding this method, it should return the augmented set of attributes. If the method does not modify any attributes, it may just return a reference to its input parameter. If you do make a change to the attributes, you must create a new array. The set of properties to filter for the component.

HtmlIntrinsicControlDesigner class (System.Web.UI.Design)

ToString

Description

Provides a base designer for all intrinsic HTML controls.

Intrinsic HTML controls are defined within, or derived from classes defined within, the **System.Web.UI.HtmlControls.HtmlControl** namespace.

HtmlIntrinsicControlDesigner

Example Syntax:

ToString

```
[C#] public HtmlIntrinsicControlDesigner();
[C++] public: HtmlIntrinsicControlDesigner();
[VB] Public Sub New()
[JScript] public function HtmlIntrinsicControlDesigner();
```

AssociatedComponents

Behavior

Component

DataBindings

DesignTimeElement

InheritanceAttribute

Inherited

ShadowProperties

ShouldCodeSerialize

Verbs

HyperLinkDataBindingHandler class (System.Web.UI.Design)

ToString

Description

Provides a data binding handler for a hyperlink property.

HyperLinkDataBindingHandler

Example Syntax:

ToString

```
[C#] public HyperLinkDataBindingHandler();
[C++] public: HyperLinkDataBindingHandler();
[VB] Public Sub New()
[JScript] public function HyperLinkDataBindingHandler();
```

DataBindControl

```
[C#] public override void DataBindControl(IDesignerHost designerHost, Control control);
[C++] public: void DataBindControl(IDesignerHost* designerHost, Control* control);
[VB] Overrides Public Sub DataBindControl(ByVal designerHost As IDesignerHost, ByVal control As Control)
[JScript] public override function DataBindControl(designerHost : IDesignerHost, control : Control);
```

Description

Adds this data binding to the specified control. The designer host for the document that contains the control. The control to add this data binding to.

IControlDesignerBehavior interface (System.Web.UI.Design)

ToString

Description

Provides an interface to provide a behavior for a control designer.

DesignTimeElementView

ToString

[C#] object DesignTimeElementView {get;}

[C++] Object* get_DesignTimeElementView();

[VB] ReadOnly Property DesignTimeElementView As Object

[JScript] abstract function get DesignTimeElementView() : Object;

Description

Gets or sets the design-time view control object for the designer.

DesignTimeHtml

ToString

[C#] string DesignTimeHtml {get; set;}

[C++] String* get_DesignTimeHtml();void set_DesignTimeHtml(String*);

[VB] Property DesignTimeHtml As String

[JScript] abstract function get DesignTimeHtml() : String;public abstract function set DesignTimeHtml(String);

Description

Gets or sets the design-time HTML for the designer's control.

OnTemplateModeChanged

[C#] void OnTemplateModeChanged();

[C++] void OnTemplateModeChanged();

[VB] Sub OnTemplateModeChanged()

[JScript] function OnTemplateModeChanged();

Description

Raises the TemplateModeChanged event.

Raising an event invokes the event handler through a delegate. For more information, see .

IDataSourceProvider interface (System.Web.UI.Design)

OnTemplateModeChanged

Description

Provides an interface that enables access to a data source.

A class that can provide a data source can implement this interface to enable access to its data source by objects that use the **System.Web.UI.Design.IDataSourceProvider** interface.

GetResolvedSelectedDataSource

[C#] IEnumerable GetResolvedSelectedDataSource();

[C++] IEnumerable* GetResolvedSelectedDataSource();

[VB] Function GetResolvedSelectedDataSource() As IEnumerable

[JScript] function GetResolvedSelectedDataSource() : IEnumerable;

Description

When implemented in a derived class, gets the selected data member from the selected data source.

Return Value: The selected data member from the selected data source.

GetSelectedDataSource

[C#] object GetSelectedDataSource();

[C++] Object* GetSelectedDataSource();

[VB] Function GetSelectedDataSource() As Object

[JScript] function GetSelectedDataSource() : Object;

Description

When implemented in a derived class, gets a reference to the data source that this data source provider provides.

Return Value: The data source that this data source provider provides.

IHtmlControlDesignerBehavior interface (System.Web.UI.Design)

GetSelectedDataSource

Description

Provides an interface to provide a behavior for an Interactive HTML control designer.

Designer

GetSelectedDataSource

```
[C#] HtmlControlDesigner Designer {get; set;}
[C++] HtmlControlDesigner* get_Designer();void set_Designer(HtmlControlDesigner*);
[VB] Property Designer As HtmlControlDesigner
[JScript] abstract function get Designer() : HtmlControlDesigner;public abstract function set Designer(HtmlControlDesigner);
```

Description

Gets or sets the designer that this behavior is associated with.

DesignTimeElement

GetSelectedDataSource

```
[C#] object DesignTimeElement {get;}
[C++] Object* get_DesignTimeElement();
[VB] ReadOnly Property DesignTimeElement As Object
[JScript] abstract function get DesignTimeElement() : Object;
```

Description

Gets the element that this designer is designing.

GetAttribute

```
[C#] object GetAttribute(string attribute, bool ignoreCase);
[C++] Object* GetAttribute(String* attribute, bool ignoreCase);
```

[VB] Function GetAttribute(ByVal attribute As String, ByVal ignoreCase As Boolean) As Object

[JScript] function GetAttribute(attribute : String, ignoreCase : Boolean) : Object;

Description

Gets the specified attribute.

Return Value: The attribute that was retrieved. The attribute to retrieve. **true** if the attribute syntax is case-insensitive; otherwise, **false**.

GetStyleAttribute

[C#] object GetStyleAttribute(string attribute, bool designTimeOnly, bool ignoreCase);

[C++] Object* GetStyleAttribute(String* attribute, bool designTimeOnly, bool ignoreCase);

[VB] Function GetStyleAttribute(ByVal attribute As String, ByVal designTimeOnly As Boolean, ByVal ignoreCase As Boolean) As Object

[JScript] function GetStyleAttribute(attribute : String, designTimeOnly : Boolean, ignoreCase : Boolean) : Object;

Description

Gets the specified style attribute.

Return Value: The style attribute that was retrieved. The style attribute to retrieve. **true** if the attribute is a design-time only attribute; otherwise, **false**. **true** if the attribute syntax is case-insensitive; otherwise, **false**.

RemoveAttribute

[C#] void RemoveAttribute(string attribute, bool ignoreCase);

[C++] void RemoveAttribute(String* attribute, bool ignoreCase);

[VB] Sub RemoveAttribute(ByVal attribute As String, ByVal ignoreCase As Boolean)

[JScript] function RemoveAttribute(attribute : String, ignoreCase : Boolean);

Description

Removes the specified attribute. The attribute to remove. **true** if the attribute syntax is case-insensitive; otherwise, **false**.

RemoveStyleAttribute

[C#] void RemoveStyleAttribute(string attribute, bool designTimeOnly, bool ignoreCase);

[C++] void RemoveStyleAttribute(String* attribute, bool designTimeOnly, bool ignoreCase);

[VB] Sub RemoveStyleAttribute(ByVal attribute As String, ByVal designTimeOnly As Boolean, ByVal ignoreCase As Boolean)

[JScript] function RemoveStyleAttribute(attribute : String, designTimeOnly : Boolean, ignoreCase : Boolean);

Description

Removes the specified style attribute. The style attribute to remove. **true** if the attribute is a design-time only attribute; otherwise, **false**. **true** if the attribute syntax is case-insensitive; otherwise, **false**.

SetAttribute

[C#] void SetAttribute(string attribute, object value, bool ignoreCase);

[C++] void SetAttribute(String* attribute, Object* value, bool ignoreCase);

[VB] Sub SetAttribute(ByVal attribute As String, ByVal value As Object, ByVal ignoreCase As Boolean)

[JScript] function SetAttribute(attribute : String, value : Object, ignoreCase : Boolean);

Description

Sets the specified attribute to the specified object. The attribute to set. The object on which to set the attribute. **true** if the attribute syntax is case-insensitive; otherwise, **false**.

SetStyleAttribute

[C#] void SetStyleAttribute(string attribute, bool designTimeOnly, object value, bool ignoreCase);

[C++] void SetStyleAttribute(String* attribute, bool designTimeOnly, Object* value, bool ignoreCase);

[VB] Sub SetStyleAttribute(ByVal attribute As String, ByVal designTimeOnly As Boolean, ByVal value As Object, ByVal ignoreCase As Boolean)

[JScript] function SetStyleAttribute(attribute : String, designTimeOnly : Boolean, value : Object, ignoreCase : Boolean);

Description

Sets the specified style attribute to the specified object. The attribute to set. **true** if the attribute is a design-time only attribute; otherwise, **false**. The object to set the attribute on. **true** if the attribute syntax is case-insensitive; otherwise, **false**.

ImageUrlEditor class (System.Web.UI.Design)

SetStyleAttribute

Description

Provides a user interface for selecting a URL.

This class extends **System.Web.UI.Design.UrlEditor** and provides a caption and filter property.

ImageUrlEditor

Example Syntax:

SetStyleAttribute

[C#] public ImageUrlEditor();

[C++] public: ImageUrlEditor();

[VB] Public Sub New()

[JScript] public function ImageUrlEditor();

Caption

SetStyleAttribute

[C#] protected override string Caption {get;}

[C++] protected: __property virtual String* get_Caption();

[VB] Overrides Protected ReadOnly Property Caption As String

[JScript] protected function get Caption() : String;

Description

Gets the caption for the editor.

Filter

SetStyleAttribute

[C#] protected override string Filter {get;}

[C++] protected: __property virtual String* get_Filter();

[VB] Overrides Protected ReadOnly Property Filter As String

[JScript] protected function get Filter() : String;

Description

Gets the filter to use for filtering the file list.

Options

ITemplateEditingFrame interface (System.Web.UI.Design)

ToString

Description

Provides an interface to manage a template editing area.

ControlStyle

ToString

[C#] Style ControlStyle {get;}

```
[C++] Style* get_ControlStyle();
[VB] ReadOnly Property ControlStyle As Style
[JScript] abstract function get ControlStyle() : Style;
```

Description

Gets or sets the style for the editing frame.

InitialHeight

ToString

```
[C#] int InitialHeight {get; set;}
[C++] int get_InitialHeight();void set_InitialHeight(int);
[VB] Property InitialHeight As Integer
[JScript] abstract function get InitialHeight() : int;public abstract function set
InitialHeight(int);
```

Description

Gets or sets the initial height for the control.

InitialWidth

ToString

```
[C#] int InitialWidth {get; set;}
[C++] int get_InitialWidth();void set_InitialWidth(int);
[VB] Property InitialWidth As Integer
[JScript] abstract function get InitialWidth() : int;public abstract function set
InitialWidth(int);
```

Description

Gets or sets the initial width for the control.

Name

ToString

```
[C#] string Name {get;}
[C++] String* get_Name();
[VB] ReadOnly Property Name As String
[JScript] abstract function get Name() : String;
```

Description

Gets or sets the name for this editing frame.

TemplateNames

ToString

```
[C#] string[] TemplateNames {get;}
[C++] String* get_TemplateNames();
[VB] ReadOnly Property TemplateNames As String ()
[JScript] abstract function get TemplateNames() : String[];
```

Description

Gets or sets a set of names of templates to use.

TemplateStyles

ToString

```
[C#] Style[] TemplateStyles {get;}
[C++] Style* get_TemplateStyles();
[VB] ReadOnly Property TemplateStyles As Style ()
[JScript] abstract function get TemplateStyles() : Style[];
```

Description

Gets or sets the template styles for this control.

Verb

ToString

```
[C#] TemplateEditingVerb Verb {get; set;}
[C++] TemplateEditingVerb* get_Verb();void set_Verb(TemplateEditingVerb*);
[VB] Property Verb As TemplateEditingVerb
[JScript] abstract function get Verb() : TemplateEditingVerb;public abstract function set Verb(TemplateEditingVerb);
```

Description

Gets or sets the verb to invoke when editing the template.

Close

```
[C#] void Close(bool saveChanges);
[C++] void Close(bool saveChanges);
[VB] Sub Close(ByVal saveChanges As Boolean)
[JScript] function Close(saveChanges : Boolean);
```

Description

Closes the control and saves any changes to the control if the specified value is **true** . **true** if any changes to the document should be changed; otherwise, **false**.

Open

```
[C#] void Open();
[C++] void Open();
[VB] Sub Open()
[JScript] function Open();
```

Description

Opens and displays the control.

Resize

```
[C#] void Resize(int width, int height);
[C++] void Resize(int width, int height);
[VB] Sub Resize(ByVal width As Integer, ByVal height As Integer)
[JScript] function Resize(width : int, height : int);
```

Description

Resizes the control to the specified width and height. The new width for the control. The new height for the control.

Save

[C#] void Save();

[C++] void Save();

[VB] Sub Save()

[JScript] function Save();

Description

Saves any changes to the document.

UpdateControlName

[C#] void UpdateControlName(string newName);

[C++] void UpdateControlName(String* newName);

[VB] Sub UpdateControlName(ByVal newName As String)

[JScript] function UpdateControlName(newName : String);

Description

Changes the name for the control to the specified name. The new name for the control.

ITemplateEditingService interface (System.Web.UI.Design)

UpdateControlName

Description

Provides services for editing templated control templates at design-time.

SupportsNestedTemplateEditing

UpdateControlName

[C#] bool SupportsNestedTemplateEditing {get;}

[C++] bool get_SupportsNestedTemplateEditing();

[VB] ReadOnly Property SupportsNestedTemplateEditing As Boolean

[JScript] abstract function get SupportsNestedTemplateEditing() : Boolean;

Description

Indicates whether the service supports nested template editing.

This property indicates whether a template editor can be invoked from a parent template editor for a component of the parent template editor's templated control. This is called nested template editing, because a template editor is launched for a component of a control for which a template editor is already operating.

CreateFrame

[C#] ITemplateEditingFrame CreateFrame(TemplatedControlDesigner designer, string frameName, string[] templateNames);

[C++] ITemplateEditingFrame* CreateFrame(TemplatedControlDesigner* designer, String* frameName, String* templateNames __gc[]);

[VB] Function CreateFrame(ByVal designer As TemplatedControlDesigner, ByVal frameName As String, ByVal templateNames() As String) As ITemplateEditingFrame

[JScript] function CreateFrame(designer : TemplatedControlDesigner, frameName : String, templateNames : String[]) : ITemplateEditingFrame; Creates a new template editing frame.

Description

Creates a new template editing frame for the specified **System.Web.UI.Design.TemplatedControlDesigner** , using the specified name and templates.

Return Value: The new **System.Web.UI.Design.ITemplateEditingFrame** . The designer that will use the template editing frame. The name of the editing frame that will be displayed on the frame. Typically this is the same as the **System.ComponentModel.Design.DesignerVerb.Text** property used as the menu text for the **System.Web.UI.Design.TemplateEditingVerb** that is invoked to create the frame. The names of the templates that the template editing frame will contain.

CreateFrame

[C#] ITemplateEditingFrame CreateFrame(TemplatedControlDesigner designer, string frameName, string[] templateNames, Style controlStyle, Style[] templateStyles);

[C++] ITemplateEditingFrame* CreateFrame(TemplatedControlDesigner* designer, String* frameName, String* templateNames __gc[], Style* controlStyle, Style* templateStyles[]);

[VB] Function CreateFrame(ByVal designer As TemplatedControlDesigner, ByVal frameName As String, ByVal templateNames() As String, ByVal controlStyle As Style, ByVal templateStyles() As Style) As ITemplateEditingFrame

[JScript] function CreateFrame(designer : TemplatedControlDesigner, frameName : String, templateNames : String[], controlStyle : Style, templateStyles : Style[]) : ITemplateEditingFrame;

Description

Creates a new template editing frame for the specified **System.Web.UI.Design.TemplatedControlDesigner** , using the specified name, template names, control style, and template styles.

Return Value: The new **System.Web.UI.Design.ITemplateEditingFrame** . The designer that will use the template editing frame. The name of the editing frame that will be displayed on the frame. Typically this is the same as the **System.ComponentModel.Design.DesignerVerb.Text** property used as the menu text for the **System.Web.UI.Design.TemplateEditingVerb** that is invoked to create the frame. The names of the templates that the template editing frame will contain. The control style for the editing frame. The template styles for the editing frame.

GetContainingTemplateName

[C#] string GetContainingTemplateName(Control control);

[C++] String* GetContainingTemplateName(Control* control);

[VB] Function GetContainingTemplateName(ByVal control As Control) As String

[JScript] function GetContainingTemplateName(control : Control) : String;

Description

Gets the name of the parent template.

Return Value: The name of the parent template. The control to get the name of the parent template of.

IWebFormReferenceManager interface (System.Web.UI.Design)

GetContainingTemplateName

Description

Provides an interface that can be used to manage references stored by a Web Form.

GetObjectType

[C#] Type GetObjectType(string tagPrefix, string typeName);

[C++] Type* GetObjectType(String* tagPrefix, String* typeName);

[VB] Function GetObjectType(ByVal tagPrefix As String, ByVal typeName As String) As Type

[JScript] function GetObjectType(tagPrefix : String, typeName : String) : Type;

Description

Gets the type of the specified object.

Return Value: The **System.Type** of the object, if it could be resolved. The tag prefix for the type. The name of the type.

GetRegisterDirectives

[C#] string GetRegisterDirectives();

[C++] String* GetRegisterDirectives();

[VB] Function GetRegisterDirectives() As String

[JScript] function GetRegisterDirectives() : String;

Description

Gets the register directives.

Return Value: The register directives for the project.

GetTagPrefix

[C#] string GetTagPrefix(Type objectType);

[C++] String* GetTagPrefix(Type* objectType);

[VB] Function GetTagPrefix(ByVal objectType As Type) As String

[JScript] function GetTagPrefix(objectType : Type) : String;

Description

Gets the tag prefix.

Return Value: The tag prefix for the specified object type, if it could be located.

The type of the object.

IWebFormsBuilderUIService interface (System.Web.UI.Design)

GetTagPrefix

Description

Provides methods to launch specific user interfaces for building properties at design-time.

BuildColor

[C#] string BuildColor(Control owner, string initialColor);

[C++] String* BuildColor(Control* owner, String* initialColor);

[VB] Function BuildColor(ByVal owner As Control, ByVal initialColor As String) As String

[JScript] function BuildColor(owner : Control, initialColor : String) : String;

Description

Launches an editor to build a color property.

Return Value: A string that represents the color that was selected. The control that contains the property to build. The initial color for the editor to pre-select.

BuildUrl

[C#] string BuildUrl(Control owner, string initialUrl, string baseUrl, string caption, string filter, UrlBuilderOptions options);

[C++] String* BuildUrl(Control* owner, String* initialUrl, String* baseUrl, String* caption, String* filter, UrlBuilderOptions options);

[VB] Function BuildUrl(ByVal owner As Control, ByVal initialUrl As String, ByVal baseUrl As String, ByVal caption As String, ByVal filter As String, ByVal options As UrlBuilderOptions) As String

[JScript] function BuildUrl(owner : Control, initialUrl : String, baseUrl : String, caption : String, filter : String, options : UrlBuilderOptions) : String;

Description

Launches an editor to build a URL property.

Return Value: A string that contains the URL returned by the **System.Web.UI.Design.UrlBuilder** . The control that contains the property to build. The initial URL to display in the selection interface. The base URL to display in the selection interface. A caption that presents a message in the selection interface. A filter for the types of files listed in the selection interface. The options for the **System.Web.UI.Design.UrlBuilder** to use.

IWebFormsDocumentService interface (System.Web.UI.Design)

BuildUrl

Description

Provides methods to access services for tracking the loading state of a web forms document, handling events at load time, accessing a document's location, managing a document's undo service, and setting a new selection within the document.

DocumentUrl

BuildUrl

```
[C#] string DocumentUrl {get;}
[C++] String* get_DocumentUrl();
[VB] ReadOnly Property DocumentUrl As String
[JScript] abstract function get DocumentUrl() : String;
```

Description

Gets or sets the URL at which the document is located.

IsLoading

BuildUrl

```
[C#] bool IsLoading {get;}
[C++] bool get_IsLoading();
[VB] ReadOnly Property IsLoading As Boolean
[JScript] abstract function get IsLoading() : Boolean;
```

Description

Indicates whether the document service is currently loading.

BuildUrl

```
[C#] event EventHandler LoadComplete;
[C++] __event EventHandler* LoadComplete;
[VB] Event LoadComplete As EventHandler
```

Description

Occurs when the service has finished loading.

This event provides an opportunity to perform operations immediately after loading has completed. Events that should occur at load time can be registered as event handlers for this event.

CreateDiscardableUndoUnit

```
[C#] object CreateDiscardableUndoUnit();
```

```
[C++] Object* CreateDiscardableUndoUnit();
[VB] Function CreateDiscardableUndoUnit() As Object
[JScript] function CreateDiscardableUndoUnit() : Object;
```

Description

Creates a discardable undo unit.

Return Value: The new discardable undo unit.

DiscardUndoUnit

```
[C#] void DiscardUndoUnit(object discardableUndoUnit);
[C++] void DiscardUndoUnit(Object* discardableUndoUnit);
[VB] Sub DiscardUndoUnit(ByVal discardableUndoUnit As Object)
[JScript] function DiscardUndoUnit(discardableUndoUnit : Object);
```

Description

Discards the specified undo unit. The undo unit to discard.

EnableUndo

```
[C#] void EnableUndo(bool enable);
[C++] void EnableUndo(bool enable);
[VB] Sub EnableUndo(ByVal enable As Boolean)
[JScript] function EnableUndo(enable : Boolean);
```

Description

Enables the ability to undo actions that occur within undoable action units or transactions. **true** if actions should be undoable; otherwise, **false**.

UpdateSelection

```
[C#] void UpdateSelection();
[C++] void UpdateSelection();
[VB] Sub UpdateSelection()
[JScript] function UpdateSelection();
```

Description

When implemented in a derived class, updates the current selection.

When implemented in a derived class, this method updates the current selection.

ReadWriteControlDesigner class (System.Web.UI.Design)

UpdateSelection

Description

Provides design-time functionality for read/write server controls.

ReadWriteControlDesigner

Example Syntax:

UpdateSelection

```
[C#] public ReadWriteControlDesigner();
[C++] public: ReadWriteControlDesigner();
```

[VB] Public Sub New()

[JScript] public function ReadWriteControlDesigner();

Description

Initializes an instance of the **System.Web.UI.Design.ReadWriteControlDesigner** class.

AllowResize

AssociatedComponents

Behavior

Component

DataBindings

DesignTimeElement

DesignTimeElementView

DesignTimeHtmlRequiresLoadComplete

ID

InheritanceAttribute

Inherited

IsDirty

ReadOnly

ShadowProperties

ShouldCodeSerialize

Verbs

MapPropertyToStyle

[C#] protected virtual void MapPropertyToStyle(string propName, object varPropValue);

[C++] protected: virtual void MapPropertyToStyle(String* propName, Object* varPropValue);

[VB] Overridable Protected Sub MapPropertyToStyle(ByVal propName As String, ByVal varPropValue As Object)

[JScript] protected function MapPropertyToStyle(propName : String, varPropValue : Object);

Description

Maps a property, including description and value, to an Interactive HTML style.

Return Value: This method must be overridden in a derived class to implement the designer. The name of the property to map. The value of the property.

OnBehaviorAttached

[C#] protected override void OnBehaviorAttached();

[C++] protected: void OnBehaviorAttached();

[VB] Overrides Protected Sub OnBehaviorAttached()

[JScript] protected override function OnBehaviorAttached();

Description

Provides notification that is raised upon a behavior being attached to the designer.

OnComponentChanged

[C#] public override void OnComponentChanged(object sender, ComponentChangedEventArgs ce);

[C++] public: void OnComponentChanged(Object* sender, ComponentChangedEventArgs* ce);

[VB] Overrides Public Sub OnComponentChanged(ByVal sender As Object, ByVal ce As ComponentChangedEventArgs)

[JScript] public override function OnComponentChanged(sender : Object, ce : ComponentChangedEventArgs);

Description

Represents the method that will handle the **System.ComponentModel.Design.IComponentChangeService.ComponentChanged** event of the **System.ComponentModel.Design.IComponentChangeService** .

The **System.ComponentModel.Design.IComponentChangeService.ComponentChanged** event occurs after a property has been changed. This delegate allows implementors to do any post-processing that may be needed after a property change. The object sending the event. The event object used when raising a **System.ComponentModel.Design.IComponentChangeService.ComponentChanged** event notification.

TemplatedControlDesigner class (System.Web.UI.Design)

UpdateDesignTimeHtml

Description

Provides design-time functionality for template-based server controls.

TemplatedControlDesigner

Example Syntax:

UpdateDesignTimeHtml

[C#] public TemplatedControlDesigner();

[C++] public: TemplatedControlDesigner();

[VB] Public Sub New()

[JScript] public function TemplatedControlDesigner();

Description

Initializes a new instance of the **System.Web.UI.Design.TemplatedControlDesigner** class.

ActiveTemplateEditingFrame

UpdateDesignTimeHtml

[C#] public ITemplateEditingFrame ActiveTemplateEditingFrame {get;}

[C++] public: __property ITemplateEditingFrame* get_ActiveTemplateEditingFrame();

[VB] Public ReadOnly Property ActiveTemplateEditingFrame As ITemplateEditingFrame

[JScript] public function get ActiveTemplateEditingFrame() :

ITemplateEditingFrame;

Description

Gets the active template editing frame.

AllowResize

AssociatedComponents

Behavior

CanEnterTemplateMode

UpdateDesignTimeHtml

Description

Indicates whether or not this designer will allow the viewing or editing of templates. This property is read-only.

Component

DataBindings

DesignTimeElement

DesignTimeElementView

DesignTimeHtmlRequiresLoadComplete

HidePropertiesInTemplateMode

UpdateDesignTimeHtml

Description

Indicates whether the properties of the control will be hidden when the control is placed into template editing mode.

The **System.Web.UI.Design.ControlDesigner.ID** property is never hidden.

ID

InheritanceAttribute

Inherited

InTemplateMode

UpdateDesignTimeHtml

Description

Indicates whether or not the designer document is in template mode.

A document is in template mode when a template is currently being viewed or edited in the forms designer.

IsDirty

ReadOnly

ShadowProperties

ShouldCodeSerialize

Verbs

CreateTemplateEditingFrame

[C#] protected abstract ITemplateEditingFrame CreateTemplateEditingFrame(TemplateEditingVerb verb);

[C++] protected: virtual ITemplateEditingFrame*

CreateTemplateEditingFrame(TemplateEditingVerb* verb) = 0;

[VB] MustOverride Protected Function CreateTemplateEditingFrame(ByVal verb As TemplateEditingVerb) As ITemplateEditingFrame

[JScript] protected abstract function CreateTemplateEditingFrame(verb : TemplateEditingVerb) : ITemplateEditingFrame;

Description

Creates a template editing frame for the specified verb.

Return Value: The new template editing frame. The template editing verb to create a template editing frame for.

Dispose

[C#] protected override void Dispose(bool disposing);

[C++] protected: void Dispose(bool disposing);

[VB] Overrides Protected Sub Dispose(ByVal disposing As Boolean)

[JScript] protected override function Dispose(disposing : Boolean);

Description

Releases the unmanaged resources used by the **System.Web.UI.Design.TemplatedControlDesigner** and optionally releases the managed resources.

This method is called by the public **Dispose()** method and the **System.Object.Finalize** method. **true** to release both managed and unmanaged resources; **false** to release only unmanaged resources.

EnterTemplateMode

```
[C#] public void EnterTemplateMode(ITemplateEditingFrame newTemplateEditingFrame);
[C++] public: void EnterTemplateMode(ITemplateEditingFrame* newTemplateEditingFrame);
[VB] Public Sub EnterTemplateMode(ByVal newTemplateEditingFrame As ITemplateEditingFrame)
[JScript] public function EnterTemplateMode(newTemplateEditingFrame : ITemplateEditingFrame);
```

Description

Opens a particular template frame object for editing in the designer.

If already in template mode and editing a different template frame, this method calls **System.Web.UI.Design.TemplatedControlDesigner.ExitTemplateMode(System.Boolean,System.Boolean,System.Boolean)** to save all its templates and close that frame. The template editing frame object to open in the designer.

ExitTemplateMode

```
[C#] public void ExitTemplateMode(bool fSwitchingTemplates, bool fNested, bool fSave);
[C++] public: void ExitTemplateMode(bool fSwitchingTemplates, bool fNested, bool fSave);
[VB] Public Sub ExitTemplateMode(ByVal fSwitchingTemplates As Boolean, ByVal fNested As Boolean, ByVal fSave As Boolean)
```

[JScript] public function ExitTemplateMode(fSwitchingTemplates : Boolean, fNested : Boolean, fSave : Boolean);

Description

Closes the currently active template editing frame after saving any relevant changes. **true** when switching from one template editing frame to another, otherwise **false**. **true** if this designer is nested (one or more levels) within another control whose designer is also in template editing mode; otherwise **false**. **true** if templates shold be saved on exit; otherwise, **false**.

GetCachedTemplateEditingVerbs

[C#] protected abstract TemplateEditingVerb[] GetCachedTemplateEditingVerbs();

[C++] protected: virtual TemplateEditingVerb* GetCachedTemplateEditingVerbs() [] = 0;

[VB] MustOverride Protected Function GetCachedTemplateEditingVerbs() As TemplateEditingVerb()

[JScript] protected abstract function GetCachedTemplateEditingVerbs() : TemplateEditingVerb[];

Description

Gets the cached template editing verbs.

Return Value: An array of **System.Web.UI.Design.TemplateEditingVerb** objects, if any.

GetPersistInnerHtml

[C#] public override string GetPersistInnerHtml();

[C++] public: String* GetPersistInnerHtml();

[VB] Overrides Public Function GetPersistInnerHtml() As String

[JScript] public override function GetPersistInnerHtml() : String;

Description

Gets the HTML to be persisted for the content present within the associated server control runtime.

Return Value: The persistable inner HTML.

GetTemplateContainerDataItemProperty

[C#] public virtual string GetTemplateContainerDataItemProperty(string templateName);

[C++] public: virtual String* GetTemplateContainerDataItemProperty(String* templateName);

[VB] Overridable Public Function GetTemplateContainerDataItemProperty(ByVal templateName As String) As String

[JScript] public function GetTemplateContainerDataItemProperty(templateName : String) : String;

Description

Gets the data item property of the template's container.

Return Value: A string representing the data. The name of the template.

GetTemplateContainerDataSource

```
[C#] public virtual IEnumerable GetTemplateContainerDataSource(string templateName);
[C++] public: virtual IEnumerable* GetTemplateContainerDataSource(String* templateName);
[VB] Overridable Public Function GetTemplateContainerDataSource(ByVal templateName As String) As IEnumerable
[JScript] public function GetTemplateContainerDataSource(templateName : String) : IEnumerable;
```

Description

Gets the data source of the template's container.

Return Value: The data source of the container of the specified template. The name of the template.

GetTemplateContent

```
[C#] public abstract string GetTemplateContent(ITemplateEditingFrame editingFrame, string templateName, out bool allowEditing);
[C++] public: virtual String* GetTemplateContent(ITemplateEditingFrame* editingFrame, String* templateName, bool* allowEditing) = 0;
[VB] MustOverride Public Function GetTemplateContent(ByVal editingFrame As ITemplateEditingFrame, ByVal templateName As String, ByRef allowEditing As Boolean) As String
[JScript] public abstract function GetTemplateContent(editingFrame : ITemplateEditingFrame, templateName : String, allowEditing : Boolean) : String;
```

Description

Gets the template's content.

Return Value: The content of the template. The template editing frame to retrieve the content of. The name of the template. A boolean variable that will be set to **true** if the template's content can be edited, or **false** if the content is read-only.

GetTemplateEditingVerbs

```
[C#] public TemplateEditingVerb[] GetTemplateEditingVerbs();
[C++] public: TemplateEditingVerb* GetTemplateEditingVerbs() [];
[VB] Public Function GetTemplateEditingVerbs() As TemplateEditingVerb()
[JScript] public function GetTemplateEditingVerbs() : TemplateEditingVerb[];
```

Description

Gets the template editing verbs available to the designer.

Return Value: The template editing verbs available to the designer.

GetTemplateFromText

```
[C#] protected ITemplate GetTemplateFromText(string text);
[C++] protected: ITemplate* GetTemplateFromText(String* text);
[VB] Protected Function GetTemplateFromText(ByVal text As String) As
ITemplate
[JScript] protected function GetTemplateFromText(text : String) : ITemplate;
```

Description

Creates a template from the specified text.

Return Value: An **System.Web.UI.ITemplate** from the specified text. The text to retrieve a template from.

GetTemplatePropertyParentType

[C#] public virtual Type GetTemplatePropertyParentType(string templateName);

[C++] public: virtual Type* GetTemplatePropertyParentType(String* templateName);

[VB] Overridable Public Function GetTemplatePropertyParentType(ByVal templateName As String) As Type

[JScript] public function GetTemplatePropertyParentType(templateName : String) : Type;

Description

Gets the type of the parent of the template property.

Return Value: The type of the object that has the template property. The name of the template to return the type of the parent for.

GetTextFromTemplate

[C#] protected string GetTextFromTemplate(ITemplate template);

[C++] protected: String* GetTextFromTemplate(ITemplate* template);

[VB] Protected Function GetTextFromTemplate(ByVal template As ITemplate) As String

[JScript] protected function GetTextFromTemplate(template : ITemplate) : String;

Description

Gets a string of text that represents the specified template.

Return Value: A string that represents the specified template. The **System.Web.UI.ITemplate** to convert to text.

OnBehaviorAttached

[C#] protected override void OnBehaviorAttached();

[C++] protected: void OnBehaviorAttached();

[VB] Overrides Protected Sub OnBehaviorAttached()

[JScript] protected override function OnBehaviorAttached();

Description

Notification that is called when the behavior is attached to the designer.

OnComponentChanged

[C#] public override void OnComponentChanged(object sender, ComponentChangedEventArgs ce);

[C++] public: void OnComponentChanged(Object* sender, ComponentChangedEventArgs* ce);

[VB] Overrides Public Sub OnComponentChanged(ByVal sender As Object, ByVal ce As ComponentChangedEventArgs)

[JScript] public override function OnComponentChanged(sender : Object, ce : ComponentChangedEventArgs);

Description

Delegate to handle the component changed event.

This is called after a property has been changed. It allows the implementor to do any post-processing that may be needed after a property change. The object sending the event. A **System.ComponentModel.Design.ComponentChangedEventArgs** that provides data for the event.

OnSetParent

[C#] public override void OnSetParent();

[C++] public: void OnSetParent();

[VB] Overrides Public Sub OnSetParent()

[JScript] public override function OnSetParent();

Description

Notification that is called when the associated control is parented.

OnTemplateModeChanged

[C#] protected virtual void OnTemplateModeChanged();

[C++] protected: virtual void OnTemplateModeChanged();

[VB] Overridable Protected Sub OnTemplateModeChanged()

[JScript] protected function OnTemplateModeChanged();

Description

Provides notification and handles processing that should occur when the template mode is changed.

PreFilterProperties

```
[C#] protected override void PreFilterProperties(IDictionary properties);
[C++] protected: void PreFilterProperties(IDictionary* properties);
[VB] Overrides Protected Sub PreFilterProperties(ByVal properties As
IDictionary)
[JScript] protected override function PreFilterProperties(properties : IDictionary);
```

Description

Allows a designer to filter the set of member attributes the component it is designing will expose through a **System.ComponentModel.TypeDescriptor** object.

Return Value: The augmented set of attributes. If the method does not modify any attributes, it may just return a reference to its input parameter. If you do make a change to the attributes, you must create a new array.

This method is called immediately before its corresponding "Post" method. If you are overriding this method you should call the base implementation before you perform your own filtering. The member attributes for component.

SaveActiveTemplateEditingFrame

```
[C#] protected void SaveActiveTemplateEditingFrame();
[C++] protected: void SaveActiveTemplateEditingFrame();
[VB] Protected Sub SaveActiveTemplateEditingFrame()
```

[JScript] protected function SaveActiveTemplateEditingFrame();

Description

Saves the active template editing frame.

SetTemplateContent

[C#] public abstract void SetTemplateContent(ITemplateEditingFrame editingFrame, string templateName, string templateContent);

[C++] public: virtual void SetTemplateContent(ITemplateEditingFrame* editingFrame, String* templateName, String* templateContent) = 0;

[VB] MustOverride Public Sub SetTemplateContent(ByVal editingFrame As ITemplateEditingFrame, ByVal templateName As String, ByVal templateContent As String)

[JScript] public abstract function SetTemplateContent(editingFrame : ITemplateEditingFrame, templateName : String, templateContent : String);

Description

Sets the specified template's content to the specified content. The template editing frame to provide content for. The name of the template. The content to set for the template.

UpdateDesignTimeHtml

[C#] public override void UpdateDesignTimeHtml();

[C++] public: void UpdateDesignTimeHtml();

[VB] Overrides Public Sub UpdateDesignTimeHtml()

[JScript] public override function UpdateDesignTimeHtml();

Description

Updates the design-time HTML.

This method should be called to refresh the design-time display if the template frames have been changed without calling methods that update the design-time HTML automatically.

TemplateEditingService class (System.Web.UI.Design)

UpdateDesignTimeHtml

TemplateEditingService

Example Syntax:

UpdateDesignTimeHtml

SupportsNestedTemplateEditing

UpdateDesignTimeHtml

CreateFrame

[C#] public ITemplateEditingFrame CreateFrame(TemplatedControlDesigner designer, string frameName, string[] templateNames);

[C++] public: __sealed ITemplateEditingFrame* CreateFrame(TemplatedControlDesigner* designer, String* frameName, String* templateNames __gc[]);

[VB] NotOverridable Public Function CreateFrame(ByVal designer As TemplatedControlDesigner, ByVal frameName As String, ByVal templateNames() As String) As ITemplateEditingFrame

[JScript] public function CreateFrame(designer : TemplatedControlDesigner, frameName : String, templateNames : String[]) : ITemplateEditingFrame;

CreateFrame

[C#] public ITemplateEditingFrame CreateFrame(TemplatedControlDesigner designer, string frameName, string[] templateNames, Style controlStyle, Style[] templateStyles);

[C++] public: __sealed ITemplateEditingFrame* CreateFrame(TemplatedControlDesigner* designer, String* frameName, String* templateNames __gc[], Style* controlStyle, Style* templateStyles[]);

[VB] NotOverridable Public Function CreateFrame(ByVal designer As TemplatedControlDesigner, ByVal frameName As String, ByVal templateNames() As String, ByVal controlStyle As Style, ByVal templateStyles() As Style) As ITemplateEditingFrame

[JScript] public function CreateFrame(designer : TemplatedControlDesigner, frameName : String, templateNames : String[], controlStyle : Style, templateStyles : Style[]) : ITemplateEditingFrame;

Dispose

[C#] public void Dispose();

[C++] public: __sealed void Dispose();

[VB] NotOverridable Public Sub Dispose()

[JScript] public function Dispose();

Finalize

[C#] ~TemplateEditingService();

[C++] ~TemplateEditingService();

[VB] Overrides Protected Sub Finalize()

[JScript] protected override function Finalize();

GetContainingTemplateName

[C#] public string GetContainingTemplateName(Control control);

[C++] public: __sealed String* GetContainingTemplateName(Control* control);

[VB] NotOverridable Public Function GetContainingTemplateName(ByVal control As Control) As String

[JScript] public function GetContainingTemplateName(control : Control) : String;

TemplateEditingVerb class (System.Web.UI.Design)

ToString

Description

Represents a designer verb that creates a template editing frame, and can only be invoked by a template editor.

TemplateEditingVerb

Example Syntax:

ToString

[C#] public TemplateEditingVerb(string text, int index, TemplatedControlDesigner designer);

[C++] public: TemplateEditingVerb(String* text, int index, TemplatedControlDesigner* designer);

[VB] Public Sub New(ByVal text As String, ByVal index As Integer, ByVal designer As TemplatedControlDesigner)

[JScript] public function TemplateEditingVerb(text : String, index : int, designer : TemplatedControlDesigner);

Description

Initializes a new instance of the **System.Web.UI.Design.TemplateEditingVerb** class. The text to show for this verb on a menu. An optional integer value that can be used by a designer; typically to indicate the index of the verb within a set of verbs. The designer that can use this verb.

Checked

CommandID

Enabled

Index

ToString

Description

Gets or sets the index, or other user data, for this verb.

This property is sometimes used to store the index of each verb in a set of verbs. When implementing a custom designer, this property can be used to store integer data in a custom defined manner.

OleStatus

Supported

Text

Visible

Dispose

[C#] public void Dispose();

[C++] public: __sealed void Dispose();

[VB] NotOverridable Public Sub Dispose()

[JScript] public function Dispose(); Releases all resources used by the **System.Web.UI.Design.TemplateEditingVerb** .

Description

Releases all resources used by the **System.Web.UI.Design.TemplateEditingVerb** .

Calling **System.Web.UI.Design.TemplateEditingVerb.Dispose** allows the resources used by the **System.Web.UI.Design.TemplateEditingVerb** to be reallocated for other purposes. For more information about **System.Web.UI.Design.TemplateEditingVerb.Dispose** , see .

Dispose

[C#] protected virtual void Dispose(bool disposing);

[C++] protected: virtual void Dispose(bool disposing);

[VB] Overridable Protected Sub Dispose(ByVal disposing As Boolean)

[JScript] protected function Dispose(disposing : Boolean);

Description

Releases the unmanaged resources used by the **System.Web.UI.Design.TemplateEditingVerb** and optionally releases the managed resources.

This method is called by the public **Dispose()** method and the **System.Object.Finalize** method. **true** to release both managed and unmanaged resources; **false** to release only unmanaged resources.

Finalize

[C#] ~TemplateEditingVerb();
[C++] ~TemplateEditingVerb();
[VB] Overrides Protected Sub Finalize()
[JScript] protected override function Finalize();

TextControlDesigner class (System.Web.UI.Design)

ToString

Description

Provides design-time support for the ASP.NET **System.Web.UI.WebControls.Label** and **System.Windows.Forms.HyperLink** server controls.

TextControlDesigner

Example Syntax:

ToString

```
[C#] public TextControlDesigner();
[C++] public: TextControlDesigner();
[VB] Public Sub New()
[JScript] public function TextControlDesigner();
        AllowResize
        AssociatedComponents
        Behavior
        Component
        DataBindings
        DesignTimeElement
        DesignTimeElementView
        DesignTimeHtmlRequiresLoadComplete
        ID
        InheritanceAttribute
        Inherited
        IsDirty
        ReadOnly
        ShadowProperties
        ShouldCodeSerialize
        Verbs
        GetDesignTimeHtml
```

[VB] Overrides Public Function GetDesignTimeHtml() As String

[JScript] public override function GetDesignTimeHtml() : String;

Description

Gets the HTML that is used to represent the associated control at design time.

Return Value: The HTML used to represent the control at design-time.

GetPersistInnerHtml

[C#] public override string GetPersistInnerHtml();

[C++] public: String* GetPersistInnerHtml();

[VB] Overrides Public Function GetPersistInnerHtml() As String

[JScript] public override function GetPersistInnerHtml() : String;

Description

Gets the HTML to persist for the inner tags of the control.

Return Value: The HTML for the tags of the control.

Initialize

[C#] public override void Initialize(IComponent component);

[C++] public: void Initialize(IComponent* component);

[VB] Overrides Public Sub Initialize(ByVal component As IComponent)

[JScript] public override function Initialize(component : IComponent);

Description

Initializes this designer with the specified component. The component for this designer to design.

TextDataBindingHandler class (System.Web.UI.Design)

UpdateDesignTimeHtml

Description

Provides a data binding handler for a text property of a control.

TextDataBindingHandler

Example Syntax:

UpdateDesignTimeHtml

[C#] public TextDataBindingHandler();

[C++] public: TextDataBindingHandler();

[VB] Public Sub New()

[JScript] public function TextDataBindingHandler();

DataBindControl

[C#] public override void DataBindControl(IDesignerHost designerHost, Control control);

[C++] public: void DataBindControl(IDesignerHost* designerHost, Control* control);

[VB] Overrides Public Sub DataBindControl(ByVal designerHost As IDesignerHost, ByVal control As Control)

[JScript] public override function DataBindControl(designerHost : IDesignerHost, control : Control);

Description

Adds this data binding to the specified control. The designer host for the document that contains the control. The control to add this data binding to.

UrlBuilder class (System.Web.UI.Design)

ToString

Description

Launches a URL editor that allows a user to select a URL.

The **System.Web.UI.Design.UrlBuilder.BuildUrl(System.ComponentModel.IComponent,System.Windows.Forms.Control,System.String,System.String,System.String)** method launches a user interface for selecting a URL.

BuildUrl

[C#] public static string BuildUrl(IComponent component, Control owner, string initialUrl, string caption, string filter);

[C++] public: static String* BuildUrl(IComponent* component, Control* owner, String* initialUrl, String* caption, String* filter);

[VB] Public Shared Function BuildUrl(ByVal component As IComponent, ByVal owner As Control, ByVal initialUrl As String, ByVal caption As String, ByVal filter As String) As String

[JScript] public static function BuildUrl(component : IComponent, owner :

Control, initialUrl : String, caption : String, filter : String) : String; Launches the Url Picker to build a Url property.

Description

Launches the Url Picker to build a Url property.

Return Value: The Url returned from the Url Picker. The component whose site is to be used to access design-time services. The control used to parent the picker window. The initial Url to be shown in the picker window. The caption of the picker window. The filter for selecting files in the picker window.

BuildUrl

[C#] public static string BuildUrl(IComponent component, Control owner, string initialUrl, string caption, string filter, UrlBuilderOptions options);
[C++] public: static String* BuildUrl(IComponent* component, Control* owner, String* initialUrl, String* caption, String* filter, UrlBuilderOptions options);
[VB] Public Shared Function BuildUrl(ByVal component As IComponent, ByVal owner As Control, ByVal initialUrl As String, ByVal caption As String, ByVal filter As String, ByVal options As UrlBuilderOptions) As String
[JScript] public static function BuildUrl(component : IComponent, owner : Control, initialUrl : String, caption : String, filter : String, options : UrlBuilderOptions) : String;

Description

Launches the Url Picker to build a Url property using the specified **System.Web.UI.Design.UrlBuilderOptions** .

Return Value: The Url returned from the Url Picker. The component whose site is to be used to access design-time services. The control used to parent the picker window. The initial Url to be shown in the picker window. The caption of the picker window. The filter for selecting files in the picker window. A **System.Web.UI.Design.UrlBuilderOptions** indicating the options for Url selection.

UrlBuilderOptions enumeration (System.Web.UI.Design)

ToString

Description

Defines identifiers for settings for a **System.Web.UI.Design.UrlBuilder** .

ToString

[C#] public const UrlBuilderOptions NoAbsolute;

[C++] public: const UrlBuilderOptions NoAbsolute;

[VB] Public Const NoAbsolute As UrlBuilderOptions

[JScript] public var NoAbsolute : UrlBuilderOptions;

Description

Build a URL that references a path relative to the current path, rather than one that consists of a fully qualified, absolute path reference URL.

ToString

[C#] public const UrlBuilderOptions None;

[C++] public: const UrlBuilderOptions None;

[VB] Public Const None As UrlBuilderOptions

[JScript] public var None : UrlBuilderOptions;

Description

Use no additional options for the **System.Web.UI.Design.UrlBuilder** .

UrlEditor class (System.Web.UI.Design)

ToString

Description

Provides a user interface for selecting a URL.

UrlEditor

Example Syntax:

ToString

[C#] public UrlEditor();

[C++] public: UrlEditor();

[VB] Public Sub New()

[JScript] public function UrlEditor();

Caption

ToString

[C#] protected virtual string Caption {get;}

[C++] protected: __property virtual String* get_Caption();

[VB] Overridable Protected ReadOnly Property Caption As String

[JScript] protected function get Caption() : String;

Description

Gets the caption for the URL.

Filter

ToString

[C#] protected virtual string Filter {get;}

[C++] protected: __property virtual String* get_Filter();

[VB] Overridable Protected ReadOnly Property Filter As String

[JScript] protected function get Filter() : String;

Description

Gets or sets the file extensions to filter the file list for.

Options

ToString

[C#] protected virtual UrlBuilderOptions Options {get;}

[C++] protected: __property virtual UrlBuilderOptions get_Options();

[VB] Overridable Protected ReadOnly Property Options As UrlBuilderOptions

[JScript] protected function get Options() : UrlBuilderOptions;

Description

Gets the options for a URL builder to use.

EditValue

[C#] public override object EditValue(ITypeDescriptorContext context, IServiceProvider provider, object value);

[C++] public: Object* EditValue(ITypeDescriptorContext* context, IServiceProvider* provider, Object* value);

[VB] Overrides Public Function EditValue(ByVal context As ITypeDescriptorContext, ByVal provider As IServiceProvider, ByVal value As Object) As Object

[JScript] public override function EditValue(context : ITypeDescriptorContext, provider : IServiceProvider, value : Object) : Object;

Description

Edits the value of the specified object using the editor style provided by the **System.Web.UI.Design.UrlEditor.GetEditStyle(System.ComponentModel.ITypeDescriptorContext)** method.

Return Value: The new value of the object. If the value of the object hasn't changed, this should return the same object it was passed.

A service provider is provided so that any required editing services can be obtained. An **System.ComponentModel.ITypeDescriptorContext** that can be used to gain additional context information. A service provider object through which editing services may be obtained. An instance of the value being edited.

GetEditStyle

[C#] public override UITypeEditorEditStyle

GetEditStyle(ITypeDescriptorContext context);

[C++] public: UITypeEditorEditStyle GetEditStyle(ITypeDescriptorContext* context);

[VB] Overrides Public Function GetEditStyle(ByVal context As ITypeDescriptorContext) As UITypeEditorEditStyle

[JScript] public override function GetEditStyle(context : ITypeDescriptorContext) : UITypeEditorEditStyle;

Description

Gets the editing style of the **System.Web.UI.Design.UrlEditor.EditValue(System.ComponentModel.ITypeDescriptorContext,System.IServiceProvider,System.Object)** method.

Return Value: One of the **System.Drawing.Design.UITypeEditorEditStyle** values indicating the provided editing style. If the method is not supported, this will return **System.Drawing.Design.UITypeEditorEditStyle.None** . An **System.ComponentModel.ITypeDescriptorContext** that can be used to gain additional context information.

UserControlDesigner class (System.Web.UI.Design)

ToString

Description

Provides design-time support for web user controls.

UserControlDesigner

Example Syntax:

ToString

[C#] public UserControlDesigner();

[C++] public: UserControlDesigner();

[VB] Public Sub New()

[JScript] public function UserControlDesigner();

Description

Initializes a new instance of the **System.Web.UI.Design.UserControlDesigner** class.

AllowResize

ToString

[C#] public override bool AllowResize {get;}

[C++] public: __property virtual bool get_AllowResize();

[VB] Overrides Public ReadOnly Property AllowResize As Boolean

[JScript] public function get AllowResize() : Boolean;

Description

Indicates whether all user controls are resizable.

AssociatedComponents

Behavior

Component

DataBindings

DesignTimeElement

DesignTimeElementView

DesignTimeHtmlRequiresLoadComplete

ID

InheritanceAttribute

Inherited

IsDirty

ReadOnly

ShadowProperties

ShouldCodeSerialize

ToString

Description

Indicates whether this designer should add a field declaration for the control in the code-behind file for the current design document.

Verbs

GetDesignTimeHtml

[C#] public override string GetDesignTimeHtml();

[C++] public: String* GetDesignTimeHtml();

[VB] Overrides Public Function GetDesignTimeHtml() As String

[JScript] public override function GetDesignTimeHtml() : String;

Description

Gets the HTML that is used to represent the control at design time.

Return Value: The HTML that is used to represent the control at design time.

GetPersistInnerHtml

```
[C#] public override string GetPersistInnerHtml();
[C++] public: String* GetPersistInnerHtml();
[VB] Overrides Public Function GetPersistInnerHtml() As String
[JScript] public override function GetPersistInnerHtml() : String;
```

Description

Gets the inner HTML that is persisted for the control.

Return Value: The content to be persisted from within the control's tags.

WebControlToolboxItem class (System.Web.UI.Design)

UpdateDesignTimeHtml

Description

Provides a base class for a Web server control

System.Drawing.Design.ToolboxItem .

WebControlToolboxItem

Example Syntax:

UpdateDesignTimeHtml

```
[C#] public WebControlToolboxItem();
[C++] public: WebControlToolboxItem();
```

[VB] Public Sub New()

[JScript] public function WebControlToolboxItem(); Initializes a new instance of the **System.Web.UI.Design.WebControlToolboxItem** class.

Description

Initializes a new instance of the **System.Web.UI.Design.WebControlToolboxItem** class.

The display name will be a short version of the type name.

WebControlToolboxItem

Example Syntax:

UpdateDesignTimeHtml

[C#] public WebControlToolboxItem(Type type);

[C++] public: WebControlToolboxItem(Type* type);

[VB] Public Sub New(ByVal type As Type)

[JScript] public function WebControlToolboxItem(type : Type);

Description

Initializes a new instance of the **System.Web.UI.Design.WebControlToolboxItem** class. The fully qualified type name of the tool for this toolbox item

AssemblyName

Bitmap

DisplayName

Filter

Locked

TypeName

CreateComponentsCore

[C#] protected override IComponent[] CreateComponentsCore(IDesignerHost host);

[C++] protected: IComponent* CreateComponentsCore(IDesignerHost* host) [];

[VB] Overrides Protected Function CreateComponentsCore(ByVal host As IDesignerHost) As IComponent()

[JScript] protected override function CreateComponentsCore(host : IDesignerHost) : IComponent[];

Description

Creates objects from each Type contained in this **System.Drawing.Design.ToolboxItem** , and adds them to the specified designer.

Return Value: An array of created **System.ComponentModel.IComponent** objects.

You can override this method to alter the way components are created. The **System.ComponentModel.Design.IDesignerHost** to use to create the components.

Deserialize

[C#] protected override void Deserialize(SerializationInfo info, StreamingContext context);

[C++] protected: void Deserialize(SerializationInfo* info, StreamingContext

context);

[VB] Overrides Protected Sub Deserialize(ByVal info As SerializationInfo, ByVal context As StreamingContext)

[JScript] protected override function Deserialize(info : SerializationInfo, context : StreamingContext);

Description

GetToolAttributeValue

[C#] public object GetToolAttributeValue(IDesignerHost host, Type attributeType);

[C++] public: Object* GetToolAttributeValue(IDesignerHost* host, Type* attributeType);

[VB] Public Function GetToolAttributeValue(ByVal host As IDesignerHost, ByVal attributeType As Type) As Object

[JScript] public function GetToolAttributeValue(host : IDesignerHost, attributeType : Type) : Object;

Description

Gets the value of the attribute of the specified type of the toolbox item.

Return Value: The value of the specified type of attribute.

The default implementation will throw an ArgumentException if the *attributeType* parameter is anything other than a PersistChildrenAttribute. The designer host for the current design document. The type of attribute to retrieve the value of.

GetToolHtml

[C#] public string GetToolHtml(IDesignerHost host);

[C++] public: String* GetToolHtml(IDesignerHost* host);

[VB] Public Function GetToolHtml(ByVal host As IDesignerHost) As String

[JScript] public function GetToolHtml(host : IDesignerHost) : String;

Description

Gets the HTML associated with the tool.

Return Value: The HTML associated with the tool. The designer host for the current design document.

GetToolType

[C#] public Type GetToolType(IDesignerHost host);

[C++] public: Type* GetToolType(IDesignerHost* host);

[VB] Public Function GetToolType(ByVal host As IDesignerHost) As Type

[JScript] public function GetToolType(host : IDesignerHost) : Type;

Description

Gets the type of this toolbox item.

Return Value: The type of this toolbox item. The designer host for the current design document.

Initialize

[C#] public override void Initialize(Type type);

[C++] public: void Initialize(Type* type);

[VB] Overrides Public Sub Initialize(ByVal type As Type)

[JScript] public override function Initialize(type : Type);

Description

Initializes this toolbox item. The type of this Web server control toolbox item.

Serialize

[C#] protected override void Serialize(SerializationInfo info, StreamingContext context);

[C++] protected: void Serialize(SerializationInfo* info, StreamingContext context);

[VB] Overrides Protected Sub Serialize(ByVal info As SerializationInfo, ByVal context As StreamingContext)

[JScript] protected override function Serialize(info : SerializationInfo, context : StreamingContext);

Description

XmlFileEditor class (System.Web.UI.Design)

ToString

Description

Provides a user interface for selecting an XML File.

XmlFileEditor

Example Syntax:

ToString

[C#] public XmlFileEditor();

[C++] public: XmlFileEditor();

[VB] Public Sub New()

[JScript] public function XmlFileEditor();

EditValue

[C#] public override object EditValue(ITypeDescriptorContext context, IServiceProvider provider, object value);

[C++] public: Object* EditValue(ITypeDescriptorContext* context, IServiceProvider* provider, Object* value);

[VB] Overrides Public Function EditValue(ByVal context As ITypeDescriptorContext, ByVal provider As IServiceProvider, ByVal value As Object) As Object

[JScript] public override function EditValue(context : ITypeDescriptorContext, provider : IServiceProvider, value : Object) : Object;

Description

Edits the value of the specified object using the specified service provider and context.

Return Value: The new value of the object. If the value of the object hasn't changed, this method should return the same object it was passed.

A service provider is provided so that any required editing services can be obtained. An **System.ComponentModel.ITypeDescriptorContext** that can be used to gain additional context information. A service provider object through which editing services may be obtained. An instance of the value being edited.

GetEditStyle

```
[C#] public override UITypeEditorEditStyle
GetEditStyle(ITypeDescriptorContext context);
[C++] public: UITypeEditorEditStyle GetEditStyle(ITypeDescriptorContext*
context);
[VB] Overrides Public Function GetEditStyle(ByVal context As
ITypeDescriptorContext) As UITypeEditorEditStyle
[JScript] public override function GetEditStyle(context : ITypeDescriptorContext)
: UITypeEditorEditStyle;
```

Description

Gets the editor style used by the **System.Web.UI.Design.XmlFileEditor.EditValue(System.ComponentModel.ITypeDescriptorContext,System.IServiceProvider,System.Object)** method.

Return Value: An value indicating the provided editing style. An

System.ComponentModel.ITypeDescriptorContext that can be used to gain additional context information.

XmlUrlEditor class (System.Web.UI.Design)

ToString

Description

Provides a user interface for editing an URL embedded in XML.

XmlUrlEditor

Example Syntax:

ToString

[C#] public XmlUrlEditor();

[C++] public: XmlUrlEditor();

[VB] Public Sub New()

[JScript] public function XmlUrlEditor();

Caption

ToString

[C#] protected override string Caption {get;}

[C++] protected: __property virtual String* get_Caption();

[VB] Overrides Protected ReadOnly Property Caption As String

[JScript] protected function get Caption() : String;

Description

Gets or sets the caption for the URL.

Filter

ToString

[C#] protected override string Filter {get;}

[C++] protected: __property virtual String* get_Filter();

[VB] Overrides Protected ReadOnly Property Filter As String

[JScript] protected function get Filter() : String;

Description

Gets or sets the file extensions to filter the file list for.

Options

ToString

[C#] protected override UrlBuilderOptions Options {get;}

[C++] protected: __property virtual UrlBuilderOptions get_Options();

[VB] Overrides Protected ReadOnly Property Options As UrlBuilderOptions

[JScript] protected function get Options() : UrlBuilderOptions;

Description

Gets the options for a URL builder to use.

XslUrlEditor class (System.Web.UI.Design)

ToString

Description

Provides a user interface for selecting an XSL file.

XslUrlEditor

Example Syntax:

ToString

[C#] public XslUrlEditor();

[C++] public: XslUrlEditor();

[VB] Public Sub New()

[JScript] public function XslUrlEditor();

Caption

ToString

[C#] protected override string Caption {get;}

[C++] protected: __property virtual String* get_Caption();

[VB] Overrides Protected ReadOnly Property Caption As String

[JScript] protected function get Caption() : String;

Description

Gets or sets the caption for the URL.

Filter

ToString

[C#] protected override string Filter {get;}

[C++] protected: __property virtual String* get_Filter();

[VB] Overrides Protected ReadOnly Property Filter As String

[JScript] protected function get Filter() : String;

Description

System.Web.UI.Design.WebControls

Description

The **System.Web.UI.Design.WebControls** namespace contains classes that can be used to extend design-time support for Web server controls.

AdRotatorDesigner class (System.Web.UI.Design.WebControls)

Description

Provides design-time support for the **System.Web.UI.WebControls.AdRotator** Web server control.

Constructors:

AdRotatorDesigner

Example Syntax:

[C#] public AdRotatorDesigner();

[C++] public: AdRotatorDesigner();

[VB] Public Sub New()

[JScript] public function AdRotatorDesigner();

Properties:

AllowResize

AssociatedComponents

Behavior

Component

DataBindings

DesignTimeElement

DesignTimeElementView

DesignTimeHtmlRequiresLoadComplete

ID

InheritanceAttribute

Inherited

IsDirty

ReadOnly

ShadowProperties

ShouldCodeSerialize

Verbs

Methods:

GetDesignTimeHtml

[C#] public override string GetDesignTimeHtml();

[C++] public: String* GetDesignTimeHtml();

[VB] Overrides Public Function GetDesignTimeHtml() As String

[JScript] public override function GetDesignTimeHtml() : String;

Description

Gets the HTML that is used to represent the control at design time.

Return Value: The HTML that is used to represent the control at design time.

BaseDataListComponentEditor class (System.Web.UI.Design.WebControls)

UpdateDesignTimeHtml

Description

Provides a base component editor class for the Web Forms **System.Web.UI.WebControls.DataGrid** and **System.Web.UI.WebControls.DataList** Web server controls.

BaseDataListComponentEditor

Example Syntax:

UpdateDesignTimeHtml

[C#] public BaseDataListComponentEditor(int initialPage);

[C++] public: BaseDataListComponentEditor(int initialPage);

[VB] Public Sub New(ByVal initialPage As Integer)

[JScript] public function BaseDataListComponentEditor(initialPage : int);

Description

Initializes a new instance of the **System.Web.UI.Design.WebControls.BaseDataListComponentEditor** class. The index of the initial page to display.

EditComponent

[C#] public override bool EditComponent(ITypeDescriptorContext context, object obj, IWin32Window parent);

[C++] public: bool EditComponent(ITypeDescriptorContext* context, Object* obj, IWin32Window* parent);

[VB] Overrides Public Function EditComponent(ByVal context As ITypeDescriptorContext, ByVal obj As Object, ByVal parent As IWin32Window) As Boolean

[JScript] public override function EditComponent(context : ITypeDescriptorContext, obj : Object, parent : IWin32Window) : Boolean;

Description

Edits the specified component using the specified context descriptor and parent window.

Return Value: **true** if editing the component succeeded; otherwise, **false** . An **System.ComponentModel.ITypeDescriptorContext** that can be used to gain additional context information. The component to edit. The parent window.

GetInitialComponentEditorPageIndex

[C#] protected override int GetInitialComponentEditorPageIndex();

[C++] protected: int GetInitialComponentEditorPageIndex();

[VB] Overrides Protected Function GetInitialComponentEditorPageIndex() As Integer

[JScript] protected override function GetInitialComponentEditorPageIndex() : int;

Description

Gets the index of the initial component editor page.

Return Value: The index of the initial page.

BaseDataListDesigner class (System.Web.UI.Design.WebControls)

ToString

Description

Provides a base designer class for the **System.Web.UI.WebControls.DataList** Web server control.

BaseDataListDesigner

Example Syntax:

ToString

[C#] public BaseDataListDesigner();

[C++] public: BaseDataListDesigner();

[VB] Public Sub New()

[JScript] public function BaseDataListDesigner();

Description

Initializes a new instance of the **System.Web.UI.Design.WebControls.BaseDataListDesigner** class.

ActiveTemplateEditingFrame

AllowResize

AssociatedComponents

Behavior

CanEnterTemplateMode

Component

DataBindings

DataKeyField

ToString

Description

Gets or sets the value of the control's data key field.

The **System.Web.UI.Design.WebControls.BaseDataListDesigner.DataKeyField** property of this designer gets or sets the **System.Web.UI.WebControls.DataList.DataKeyField** property of the **System.Web.UI.WebControls.DataList** control that this designer is editing.

DataMember

ToString

[C#] public string DataMember {get; set;}

[C++] public: __property String* get_DataMember();public: __property void set_DataMember(String*);

[VB] Public Property DataMember As String

[JScript] public function get DataMember() : String;public function set DataMember(String);

Description

Gets or sets the value of the control's data member field.

The **System.Web.UI.Design.WebControls.BaseDataListDesigner.DataMember** property of this designer gets or sets the **System.Web.UI.WebControls.DataList.DataMember** property of the **System.Web.UI.WebControls.DataList** control that this designer is editing.

DataSource

ToString

[C#] public string DataSource {get; set;}

[C++] public: __property String* get_DataSource();public: __property void set_DataSource(String*);

[VB] Public Property DataSource As String

[JScript] public function get DataSource() : String;public function set DataSource(String);

Description

Gets or sets the value of the control's data source property.

The **System.Web.UI.Design.WebControls.BaseDataListDesigner.DataSource** property of this designer gets or sets the **System.Web.UI.WebControls.DataList.DataSource** property of the **System.Web.UI.WebControls.DataList** control that this designer is editing.

DesignTimeElement

DesignTimeElementView

DesignTimeHtmlRequiresLoadComplete

ToString

Description

Indicates whether loading must have completed to display the design-time HTML.

If this property is set to **true** , the control will not be displayed until the entire load has completed.

HidePropertiesInTemplateMode

ID

InheritanceAttribute

Inherited

InTemplateMode

IsDirty

ReadOnly

ShadowProperties

ShouldCodeSerialize

Verbs

ToString

Description

Gets or sets the collection of verbs available to this designer.

Dispose

[C#] protected override void Dispose(bool disposing);

[C++] protected: void Dispose(bool disposing);

[VB] Overrides Protected Sub Dispose(ByVal disposing As Boolean)

[JScript] protected override function Dispose(disposing : Boolean);

Description

Releases the unmanaged resources used by the **System.Web.UI.Design.WebControls.BaseDataListDesigner** and optionally releases the managed resources.

This method is called by the public **Dispose()** method and the **System.Object.Finalize** method. **true** to release both managed and unmanaged resources; **false** to release only unmanaged resources.

GetDesignTimeDataSource

[C#] protected IEnumerable GetDesignTimeDataSource(int minimumRows, out bool dummyDataSource);

[C++] protected: IEnumerable* GetDesignTimeDataSource(int minimumRows, bool* dummyDataSource);

[VB] Protected Function GetDesignTimeDataSource(ByVal minimumRows As Integer, ByRef dummyDataSource As Boolean) As IEnumerable

[JScript] protected function GetDesignTimeDataSource(minimumRows : int, dummyDataSource : Boolean) : IEnumerable; Gets a set of sample data that matches the schema of the selected data source.

Description

Gets a set of sample data that matching the schema of the selected data source.

Return Value: A live data source for use at design-time. The minimum rows of sample data that the data source data should contain. A boolean variable that will be set to **true** if the returned data source contains dummy data, or **false** if the data source was populated with data from an actual data source.

GetDesignTimeDataSource

[C#] protected IEnumerable GetDesignTimeDataSource(IEnumerable selectedDataSource, int minimumRows, out bool dummyDataSource);

[C++] protected: IEnumerable* GetDesignTimeDataSource(IEnumerable* selectedDataSource, int minimumRows, bool* dummyDataSource);

[VB] Protected Function GetDesignTimeDataSource(ByVal selectedDataSource

As IEnumerable, ByVal minimumRows As Integer, ByRef dummyDataSource As Boolean) As IEnumerable

[JScript] protected function GetDesignTimeDataSource(selectedDataSource : IEnumerable, minimumRows : int, dummyDataSource : Boolean) : IEnumerable;

Description

Gets a set of sample data that matches the schema of the selected data source.

Return Value: A live data source for use at design-time. The data source that will be used as a template for the format of the data. The minimum number of rows of sample data that the data source data should contain. A boolean variable that will be set to **true** if the returned data source contains dummy data, or **false** if the data source was populated with data from an actual data source.

GetResolvedSelectedDataSource

[C#] public IEnumerable GetResolvedSelectedDataSource();

[C++] public: __sealed IEnumerable* GetResolvedSelectedDataSource();

[VB] NotOverridable Public Function GetResolvedSelectedDataSource() As IEnumerable

[JScript] public function GetResolvedSelectedDataSource() : IEnumerable;

Description

Gets the data member that is currently selected within the data source currently bound to the control.

Return Value: The currently selected data member, or **null** if the control was not bound to a data source, or the data source, site of the designer's component, or the container of the data source could not be accessed.

GetSelectedDataSource

[C#] public object GetSelectedDataSource();

[C++] public: __sealed Object* GetSelectedDataSource();

[VB] NotOverridable Public Function GetSelectedDataSource() As Object

[JScript] public function GetSelectedDataSource() : Object;

Description

Gets the selected data source component from the component's container.

Return Value: The selected data source, or **null** if a data source is not found, or if a data source with the same name does not exist.

GetTemplateContainerDataSource

[C#] public override IEnumerable GetTemplateContainerDataSource(string templateName);

[C++] public: IEnumerable* GetTemplateContainerDataSource(String* templateName);

[VB] Overrides Public Function GetTemplateContainerDataSource(ByVal templateName As String) As IEnumerable

[JScript] public override function GetTemplateContainerDataSource(templateName : String) : IEnumerable;

Description

Gets the template's container's data source.

Return Value: An object that implements **System.Collections.IEnumerable** and contains the data source or data sources available to the template's container. The name of the template to retrieve the data source for.

Initialize

[C#] public override void Initialize(IComponent component);

[C++] public: void Initialize(IComponent* component);

[VB] Overrides Public Sub Initialize(ByVal component As IComponent)

[JScript] public override function Initialize(component : IComponent);

Description

Initializes the designer with the **System.Web.UI.WebControls.DataGrid** control that this instance of the designer is associated with. The associated **System.Web.UI.WebControls.DataGrid** control.

InvokePropertyBuilder

[C#] protected internal void InvokePropertyBuilder(int initialPage);

[C++] protected public: void InvokePropertyBuilder(int initialPage);

[VB] Protected Friend Dim Sub InvokePropertyBuilder(ByVal initialPage As Integer)

[JScript] package function InvokePropertyBuilder(initialPage : int);

Description

Invokes the property builder beginning with the specified page. The page to begin with.

OnAutoFormat

```
[C#] protected void OnAutoFormat(object sender, EventArgs e);
[C++] protected: void OnAutoFormat(Object* sender, EventArgs* e);
[VB] Protected Sub OnAutoFormat(ByVal sender As Object, ByVal e As
EventArgs)
[JScript] protected function OnAutoFormat(sender : Object, e : EventArgs);
```

Description

Represents the method that will handle the AutoFormat event. The source of the event. An **System.EventArgs** object that provides data about the event.

OnComponentChanged

```
[C#] public override void OnComponentChanged(object sender,
ComponentChangedEventArgs e);
[C++] public: void OnComponentChanged(Object* sender,
ComponentChangedEventArgs* e);
[VB] Overrides Public Sub OnComponentChanged(ByVal sender As Object,
ByVal e As ComponentChangedEventArgs)
[JScript] public override function OnComponentChanged(sender : Object, e :
ComponentChangedEventArgs);
```

Description

Represents the method that will handle the component change event. The source of the event. The **System.ComponentModel.Design.ComponentChangedEventArgs** that provides data about the event.

OnDataSourceChanged

[C#] protected internal virtual void OnDataSourceChanged();

[C++] protected public: virtual void OnDataSourceChanged();

[VB] Overridable Protected Friend Dim Sub OnDataSourceChanged()

[JScript] package function OnDataSourceChanged();

Description

Raises the DataSourceChanged event.

OnPropertyBuilder

[C#] protected void OnPropertyBuilder(object sender, EventArgs e);

[C++] protected: void OnPropertyBuilder(Object* sender, EventArgs* e);

[VB] Protected Sub OnPropertyBuilder(ByVal sender As Object, ByVal e As EventArgs)

[JScript] protected function OnPropertyBuilder(sender : Object, e : EventArgs);

Description

Represents the method that will handle the property builder event. The source of the event. An **System.EventArgs** object that provides data about the event.

OnStylesChanged

[C#] protected internal void OnStylesChanged();

[C++] protected public: void OnStylesChanged();

[VB] Protected Friend Dim Sub OnStylesChanged()

[JScript] package function OnStylesChanged();

Description

Provides a method that can be overrriden to implement functionality that should occur when a style of the control has been changed.

This method can serve as notification that a style of the control has changed.

OnTemplateEditingVerbsChanged

[C#] protected abstract void OnTemplateEditingVerbsChanged();

[C++] protected: virtual void OnTemplateEditingVerbsChanged() = 0;

[VB] MustOverride Protected Sub OnTemplateEditingVerbsChanged()

[JScript] protected abstract function OnTemplateEditingVerbsChanged();

Description

Provides a method that can be overrriden to implement functionality that should occur when the designer's template editing verbs have changed.

This method can serve as notification that the designer's template editing verbs have changed.

PreFilterProperties

[C#] protected override void PreFilterProperties(IDictionary properties);

[C++] protected: void PreFilterProperties(IDictionary* properties);

[VB] Overrides Protected Sub PreFilterProperties(ByVal properties As IDictionary)

[JScript] protected override function PreFilterProperties(properties : IDictionary);

Description

Filters the properties exposed through a **System.ComponentModel.TypeDescriptor** and replaces the runtime DataSource property descriptor with a design-time data source. The set of properties to filter.

BaseValidatorDesigner class (System.Web.UI.Design.WebControls)

UpdateDesignTimeHtml

Description

Provides design-time support for controls that derive from **System.Web.UI.WebControls.BaseValidator** .

BaseValidatorDesigner

Example Syntax:

UpdateDesignTimeHtml

[C#] public BaseValidatorDesigner();

[C++] public: BaseValidatorDesigner();

```
[VB] Public Sub New()
[JScript] public function BaseValidatorDesigner();
          AllowResize
          AssociatedComponents
          Behavior
          Component
          DataBindings
          DesignTimeElement
          DesignTimeElementView
          DesignTimeHtmlRequiresLoadComplete
          ID
          InheritanceAttribute
          Inherited
          IsDirty
          ReadOnly
          ShadowProperties
          ShouldCodeSerialize
          Verbs
          GetDesignTimeHtml

[C#] public override string GetDesignTimeHtml();
[C++] public: String* GetDesignTimeHtml();
[VB] Overrides Public Function GetDesignTimeHtml() As String
[JScript] public override function GetDesignTimeHtml() : String;
```

Description

Gets the HTML that is used to represent the control at design time.

Return Value: The HTML that is used to represent the control at design time.

ButtonDesigner class (System.Web.UI.Design.WebControls)

UpdateDesignTimeHtml

Description

Provides design-time support for the **System.Web.UI.WebControls.Button** Web server control.

ButtonDesigner

Example Syntax:

UpdateDesignTimeHtml

[C#] public ButtonDesigner();

[C++] public: ButtonDesigner();

[VB] Public Sub New()

[JScript] public function ButtonDesigner();

AllowResize

AssociatedComponents

Behavior

Component

DataBindings

DesignTimeElement

DesignTimeElementView

DesignTimeHtmlRequiresLoadComplete

ID

InheritanceAttribute

Inherited

IsDirty

ReadOnly

ShadowProperties

ShouldCodeSerialize

Verbs

GetDesignTimeHtml

```
[C#] public override string GetDesignTimeHtml();
[C++] public: String* GetDesignTimeHtml();
[VB] Overrides Public Function GetDesignTimeHtml() As String
[JScript] public override function GetDesignTimeHtml() : String;
```

Description

Gets the HTML that is used to represent the control at design time.

Return Value: The HTML that is used to represent the control at design time.

CalendarAutoFormatDialog class (System.Web.UI.Design.WebControls)

UpdateDesignTimeHtml

Description

Provides an AutoFormat page for a **System.Web.UI.WebControls.Calendar** Web server control.

CalendarAutoFormatDialog

Example Syntax:

UpdateDesignTimeHtml

```
[C#] public CalendarAutoFormatDialog(Calendar calendar);
[C++] public: CalendarAutoFormatDialog(Calendar* calendar);
[VB] Public Sub New(ByVal calendar As Calendar)
[JScript] public function CalendarAutoFormatDialog(calendar : Calendar);
```

Description

Create a new AutoFormatPage instance Create a new AutoFormatPage instance

AcceptButton

AccessibilityObject

AccessibleDefaultActionDescription

AccessibleDescription

AccessibleName

AccessibleRole

ActiveControl

ActiveMdiChild

AllowDrop

AllowTransparency

Anchor

AutoScale

AutoScaleBaseSize

AutoScroll

AutoScrollMargin

AutoScrollMinSize

AutoScrollPosition

BackColor

BackgroundImage

BindingContext

Bottom

Bounds

CancelButton

CanFocus

CanSelect

Capture

CausesValidation

ClientRectangle

ClientSize

CompanyName

Container

ContainsFocus

ContextMenu

ControlBox

Controls

Created

CreateParams

Cursor

DataBindings

DefaultImeMode

DefaultSize

DesignMode

DesktopBounds

DesktopLocation

DialogResult

DisplayRectangle

Disposing

Dock

DockPadding

Enabled

Events

Focused

Font

FontHeight

ForeColor

FormBorderStyle

Handle

HasChildren

Height

HelpButton

HScroll

Icon

ImeMode

InvokeRequired

IsAccessible

IsDisposed

IsHandleCreated

IsMdiChild

IsMdiContainer

IsRestrictedWindow

KeyPreview

Left

Location

MaximizeBox

MaximizedBounds

MaximumSize

MdiChildren

MdiParent

Menu

MergedMenu

MinimizeBox

MinimumSize

Modal

Name

Opacity

OwnedForms

Owner

Parent

ParentForm

ProductName

ProductVersion

RecreatingHandle

Region

RenderRightToLeft

ResizeRedraw

Right

RightToLeft

ShowFocusCues

ShowInTaskbar

ShowKeyboardCues

Site

Size

SizeGripStyle

StartPosition

TabIndex

TabStop

Tag

Text

Top

TopLevel

TopLevelControl

TopMost

TransparencyKey

Visible

VScroll

Width

WindowState

WindowTarget

DoDelayLoadActions

[C#] protected void DoDelayLoadActions();

[C++] protected: void DoDelayLoadActions();

[VB] Protected Sub DoDelayLoadActions()

[JScript] protected function DoDelayLoadActions();

Description

Executes any initialization that was delayed until the first idle time

Executes any initialization that was delayed until the first idle time

OnActivated

[C#] protected void OnActivated(object source, EventArgs e);

[C++] protected: void OnActivated(Object* source, EventArgs* e);

[VB] Protected Sub OnActivated(ByVal source As Object, ByVal e As EventArgs)

[JScript] protected function OnActivated(source : Object, e : EventArgs);

Description

Handles the activated event of the **System.Web.UI.WebControls.Calendar** AutoFormat dialog.

This method provides an opportunity to perform operations after a Calendar AutoFormat dialog has been activated. The source of the event. An **System.EventArgs** that provides information about the event.

OnOKClicked

[C#] protected void OnOKClicked(object source, EventArgs e);

[C++] protected: void OnOKClicked(Object* source, EventArgs* e);

[VB] Protected Sub OnOKClicked(ByVal source As Object, ByVal e As EventArgs)

[JScript] protected function OnOKClicked(source : Object, e : EventArgs);

Description

Handle changes in the pre-defined schema choices Handle changes in the pre-defined schema choices

OnSelChangedScheme

[C#] protected void OnSelChangedScheme(object source, EventArgs e);

[C++] protected: void OnSelChangedScheme(Object* source, EventArgs* e);

[VB] Protected Sub OnSelChangedScheme(ByVal source As Object, ByVal e As EventArgs)

[JScript] protected function OnSelChangedScheme(source : Object, e :

EventArgs);

Description

Handle changes in the pre-defined schema choices Handle changes in the pre-defined schema choices

SaveComponent

[C#] protected void SaveComponent();

[C++] protected: void SaveComponent();

[VB] Protected Sub SaveComponent()

[JScript] protected function SaveComponent();

Description

Save any changes into the component Save any changes into the component

CalendarDesigner class (System.Web.UI.Design.WebControls)

WndProc

Description

Provides design-time support for the **System.Web.UI.WebControls.Calendar** Web server control.

CalendarDesigner

Example Syntax:

WndProc

```
[C#] public CalendarDesigner();
[C++] public: CalendarDesigner();
[VB] Public Sub New()
[JScript] public function CalendarDesigner();
```

AllowResize

AssociatedComponents

Behavior

Component

DataBindings

DesignTimeElement

DesignTimeElementView

DesignTimeHtmlRequiresLoadComplete

ID

InheritanceAttribute

Inherited

IsDirty

ReadOnly

ShadowProperties

ShouldCodeSerialize

Verbs

WndProc

Description

Gets the set of verbs available to this designer.

Initialize

[C#] public override void Initialize(IComponent component);

[C++] public: void Initialize(IComponent* component);

[VB] Overrides Public Sub Initialize(ByVal component As IComponent)

[JScript] public override function Initialize(component : IComponent);

Description

Initializes the designer with the component for design.

The designer host calls **System.Web.UI.Design.WebControls.CalendarDesigner.Initialize(System.ComponentModel.IComponent)** to establish the component for design. The control element for design.

OnAutoFormat

[C#] protected void OnAutoFormat(object sender, EventArgs e);

[C++] protected: void OnAutoFormat(Object* sender, EventArgs* e);

[VB] Protected Sub OnAutoFormat(ByVal sender As Object, ByVal e As EventArgs)

[JScript] protected function OnAutoFormat(sender : Object, e : EventArgs);

Description

Delegate to handle the the AutoFormat verb that displays a new **System.Web.UI.Design.WebControls.CalendarAutoFormatDialog** . The source of the event. The **System.EventArgs** object that provides data about the event.

CheckBoxDesigner class (System.Web.UI.Design.WebControls)

UpdateDesignTimeHtml

Description

Provides design-time support for the **System.Web.UI.WebControls.CheckBox** Web server control.

CheckBoxDesigner

Example Syntax:

UpdateDesignTimeHtml

```
[C#] public CheckBoxDesigner();
[C++] public: CheckBoxDesigner();
[VB] Public Sub New()
[JScript] public function CheckBoxDesigner();
```

AllowResize

AssociatedComponents

Behavior

Component

DataBindings

DesignTimeElement

DesignTimeElementView

DesignTimeHtmlRequiresLoadComplete

ID

InheritanceAttribute

Inherited

IsDirty

ReadOnly

ShadowProperties

ShouldCodeSerialize

Verbs

GetDesignTimeHtml

[C#] public override string GetDesignTimeHtml();

[C++] public: String* GetDesignTimeHtml();

[VB] Overrides Public Function GetDesignTimeHtml() As String

[JScript] public override function GetDesignTimeHtml() : String;

Description

Gets the HTML that is used to represent the control at design time.

Return Value: The HTML that is used to represent the control at design time.

DataGridColumnCollectionEditor class

(System.Web.UI.Design.WebControls)

UpdateDesignTimeHtml

Description

Provides a collection editing user interface for a column collection of a **System.Web.UI.WebControls.DataGrid** Web server control.

DataGridColumnCollectionEditor

Example Syntax:

UpdateDesignTimeHtml

[C#] public DataGridColumnCollectionEditor();

[C++] public: DataGridColumnCollectionEditor();

[VB] Public Sub New()

[JScript] public function DataGridColumnCollectionEditor();

EditValue

[C#] public override object EditValue(ITypeDescriptorContext context, IServiceProvider provider, object value);

[C++] public: Object* EditValue(ITypeDescriptorContext* context, IServiceProvider* provider, Object* value);

[VB] Overrides Public Function EditValue(ByVal context As ITypeDescriptorContext, ByVal provider As IServiceProvider, ByVal value As Object) As Object

[JScript] public override function EditValue(context : ITypeDescriptorContext, provider : IServiceProvider, value : Object) : Object;

Description

Edits the specified value using the specified context descriptor and service provider.

Return Value: The new value. An **System.ComponentModel.ITypeDescriptorContext** that indicates the context of the object to edit the value of. An **System.IServiceProvider**. The object to edit.

GetEditStyle

```
[C#] public override UITypeEditorEditStyle
GetEditStyle(ITypeDescriptorContext context);
[C++] public: UITypeEditorEditStyle GetEditStyle(ITypeDescriptorContext*
context);
[VB] Overrides Public Function GetEditStyle(ByVal context As
ITypeDescriptorContext) As UITypeEditorEditStyle
[JScript] public override function GetEditStyle(context : ITypeDescriptorContext)
: UITypeEditorEditStyle;
```

Description

Gets the edit style used by the **System.Web.UI.Design.WebControls.DataGridColumnCollectionEditor.EditValue(System.ComponentModel.ITypeDescriptorContext,System.IServiceProvider,System.Object)** method.

Return Value: A **System.Drawing.Design.UITypeEditorEditStyle** that represents the editor style that this editor uses. An **System.ComponentModel.ITypeDescriptorContext** that indicates the context of the object to edit the value of.

DataGridComponentEditor class (System.Web.UI.Design.WebControls)

ToString

Description

Provides a component editor for a Web Forms **System.Web.UI.WebControls.DataGrid** Web server control.

DataGridComponentEditor

Example Syntax:

ToString

[C#] public DataGridComponentEditor();

[C++] public: DataGridComponentEditor();

[VB] Public Sub New()

[JScript] public function DataGridComponentEditor(); Initializes a new instance of the **System.Web.UI.Design.WebControls.DataGridComponentEditor** class.

Description

Initializes a new instance of the **System.Web.UI.Design.WebControls.DataGridComponentEditor** class.

DataGridComponentEditor

Example Syntax:

ToString

[C#] public DataGridComponentEditor(int initialPage);

[C++] public: DataGridComponentEditor(int initialPage);

[VB] Public Sub New(ByVal initialPage As Integer)

```
[JScript] public function DataGridComponentEditor(initialPage : int);
```

Description

Initializes a new instance of the **System.Web.UI.Design.WebControls.DataGridComponentEditor** class. The index of the initial page.

GetComponentEditorPages

```
[C#] protected override Type[] GetComponentEditorPages();
[C++] protected: Type* GetComponentEditorPages() [];
[VB] Overrides Protected Function GetComponentEditorPages() As Type()
[JScript] protected override function GetComponentEditorPages() : Type[];
```

Description

Gets the set of all pages in the **System.Web.UI.WebControls.DataGrid** control.

Return Value: An array consisting of the set of component editor pages.

This method can be overridden to change the set of pages to show.

DataGridDesigner class (System.Web.UI.Design.WebControls)

ToString

Description

Provides design-time support for the **System.Web.UI.WebControls.DataGrid** Web server control.

DataGridDesigner

Example Syntax:

ToString

[C#] public DataGridDesigner();

[C++] public: DataGridDesigner();

[VB] Public Sub New()

[JScript] public function DataGridDesigner();

Description

Initializes a new instance of the **System.Web.UI.Design.WebControls.DataGridDesigner** class.

ActiveTemplateEditingFrame

AllowResize

AssociatedComponents

Behavior

CanEnterTemplateMode

Component

DataBindings

DataKeyField

DataMember

DataSource

DesignTimeElement

DesignTimeElementView

DesignTimeHtmlRequiresLoadComplete

HidePropertiesInTemplateMode

ID

InheritanceAttribute

Inherited

InTemplateMode

IsDirty

ReadOnly

ShadowProperties

ShouldCodeSerialize

Verbs

CreateTemplateEditingFrame

[C#] protected override ITemplateEditingFrame CreateTemplateEditingFrame(TemplateEditingVerb verb);

[C++] protected: ITemplateEditingFrame* CreateTemplateEditingFrame(TemplateEditingVerb* verb);

[VB] Overrides Protected Function CreateTemplateEditingFrame(ByVal verb As TemplateEditingVerb) As ITemplateEditingFrame

[JScript] protected override function CreateTemplateEditingFrame(verb : TemplateEditingVerb) : ITemplateEditingFrame;

Description

Creates a template editing frame using the specified verb.

Return Value: The new template editing frame. The verb to create the template editing frame for.

Dispose

[C#] protected override void Dispose(bool disposing);

[C++] protected: void Dispose(bool disposing);

[VB] Overrides Protected Sub Dispose(ByVal disposing As Boolean)

[JScript] protected override function Dispose(disposing : Boolean);

Description

Releases the unmanaged resources used by the **System.Web.UI.Design.WebControls.DataGridDesigner** and optionally releases the managed resources.

This method is called by the public **Dispose()** method and the **System.Object.Finalize** method. **true** to release both managed and unmanaged resources; **false** to release only unmanaged resources.

GetCachedTemplateEditingVerbs

[C#] protected override TemplateEditingVerb[] GetCachedTemplateEditingVerbs();

[C++] protected: TemplateEditingVerb* GetCachedTemplateEditingVerbs() [];

[VB] Overrides Protected Function GetCachedTemplateEditingVerbs() As TemplateEditingVerb()

[JScript] protected override function GetCachedTemplateEditingVerbs() : TemplateEditingVerb[];

Description

Gets the cached template editing verbs.

Return Value: An array containing the cached template editing verbs.

GetDesignTimeHtml

```
[C#] public override string GetDesignTimeHtml();
[C++] public: String* GetDesignTimeHtml();
[VB] Overrides Public Function GetDesignTimeHtml() As String
[JScript] public override function GetDesignTimeHtml() : String;
```

Description

Gets the HTML that is used to represent the control at design time.

Return Value: The HTML that is used to represent the control at design time.

GetEmptyDesignTimeHtml

```
[C#] protected override string GetEmptyDesignTimeHtml();
[C++] protected: String* GetEmptyDesignTimeHtml();
[VB] Overrides Protected Function GetEmptyDesignTimeHtml() As String
[JScript] protected override function GetEmptyDesignTimeHtml() : String;
```

Description

Gets the HTML used to represent an empty template-based control at design time.

Return Value: The HTML used to represent an empty template-based control at design time.

GetErrorDesignTimeHtml

[C#] protected override string GetErrorDesignTimeHtml(Exception e);

[C++] protected: String* GetErrorDesignTimeHtml(Exception* e);

[VB] Overrides Protected Function GetErrorDesignTimeHtml(ByVal e As Exception) As String

[JScript] protected override function GetErrorDesignTimeHtml(e : Exception) : String;

Description

Gets the HTML displayed at design-time for the specified exception when an error has been encountered while rendering the control.

Return Value: The HTML displayed at design-time for the specified exception.

The exception to display an error message for.

GetTemplateContainerDataItemProperty

[C#] public override string GetTemplateContainerDataItemProperty(string templateName);

[C++] public: String* GetTemplateContainerDataItemProperty(String* templateName);

[VB] Overrides Public Function GetTemplateContainerDataItemProperty(ByVal templateName As String) As String

[JScript] public override function GetTemplateContainerDataItemProperty(templateName : String) : String;

Description

Gets the template's container's data item property.

Return Value: The template's container's data item property. The name of the template.

GetTemplateContent

[C#] public override string GetTemplateContent(ITemplateEditingFrame editingFrame, string templateName, out bool allowEditing);

[C++] public: String* GetTemplateContent(ITemplateEditingFrame* editingFrame, String* templateName, bool* allowEditing);

[VB] Overrides Public Function GetTemplateContent(ByVal editingFrame As ITemplateEditingFrame, ByVal templateName As String, ByRef allowEditing As Boolean) As String

[JScript] public override function GetTemplateContent(editingFrame : ITemplateEditingFrame, templateName : String, allowEditing : Boolean) : String;

Description

Gets the template's content.

Return Value: The template's content. The template frame to retrieve content for. The name of the template. A boolean variable that will be set to **true** if the template's content can be edited, or **false** if the content is read-only.

GetTemplatePropertyParentType

[C#] public override Type GetTemplatePropertyParentType(string templateName);

[C++] public: Type* GetTemplatePropertyParentType(String* templateName);

[VB] Overrides Public Function GetTemplatePropertyParentType(ByVal templateName As String) As Type

[JScript] public override function GetTemplatePropertyParentType(templateName : String) : Type;

Description

Gets the type of the parent of the template property.

Return Value: The type of the object that has the template property. The name of the template to return the type of the parent for.

Initialize

[C#] public override void Initialize(IComponent component);

[C++] public: void Initialize(IComponent* component);

[VB] Overrides Public Sub Initialize(ByVal component As IComponent)

[JScript] public override function Initialize(component : IComponent);

Description

Initializes the designer with the **System.Web.UI.WebControls.DataGrid** control that this instance of the designer is associated with. The associated **System.Web.UI.WebControls.DataGrid** control.

OnColumnsChanged

[C#] public virtual void OnColumnsChanged();

[C++] public: virtual void OnColumnsChanged();

[VB] Overridable Public Sub OnColumnsChanged()

[JScript] public function OnColumnsChanged();

Description

Notification that is called when the columns changed event occurs.

OnTemplateEditingVerbsChanged

[C#] protected override void OnTemplateEditingVerbsChanged();

[C++] protected: void OnTemplateEditingVerbsChanged();

[VB] Overrides Protected Sub OnTemplateEditingVerbsChanged()

[JScript] protected override function OnTemplateEditingVerbsChanged();

Description

Provides an opportunity to do processing or other actions when a change has been made to the template editing verbs.

SetTemplateContent

[C#] public override void SetTemplateContent(ITemplateEditingFrame editingFrame, string templateName, string templateContent);

[C++] public: void SetTemplateContent(ITemplateEditingFrame* editingFrame, String* templateName, String* templateContent);

[VB] Overrides Public Sub SetTemplateContent(ByVal editingFrame As ITemplateEditingFrame, ByVal templateName As String, ByVal templateContent As String)

[JScript] public override function SetTemplateContent(editingFrame : ITemplateEditingFrame, templateName : String, templateContent : String);

Description

Sets the content for the specified template and frame. The template frame to set the content for. The name of the template. The content to set.

DataListComponentEditor class (System.Web.UI.Design.WebControls)

UpdateDesignTimeHtml

Description

Provides a component editor for a Web Forms **System.Web.UI.WebControls.DataList** control.

DataListComponentEditor

Example Syntax:

UpdateDesignTimeHtml

[C#] public DataListComponentEditor();

[C++] public: DataListComponentEditor();

[VB] Public Sub New()

[JScript] public function DataListComponentEditor(); Initializes a new instance of **System.Web.UI.Design.WebControls.DataListComponentEditor** .

Description

Initializes a new instance of **System.Web.UI.Design.WebControls.DataListComponentEditor** .

DataListComponentEditor

Example Syntax:

UpdateDesignTimeHtml

```
[C#] public DataListComponentEditor(int initialPage);
[C++] public: DataListComponentEditor(int initialPage);
[VB] Public Sub New(ByVal initialPage As Integer)
[JScript] public function DataListComponentEditor(initialPage : int);
```

Description

Initializes a new instance of **System.Web.UI.Design.WebControls.DataListComponentEditor** . The index of the initial page to display.

GetComponentEditorPages

```
[C#] protected override Type[] GetComponentEditorPages();
[C++] protected: Type* GetComponentEditorPages() [];
[VB] Overrides Protected Function GetComponentEditorPages() As Type()
[JScript] protected override function GetComponentEditorPages() : Type[];
```

Description

Gets the set of component editor pages owned by the designer.

Return Value: The pages owned by the designer.

DataListDesigner class (System.Web.UI.Design.WebControls)

ToString

Description

Provides design-time support for the **System.Web.UI.WebControls.DataList** Web server control.

DataListDesigner

Example Syntax:

ToString

[C#] public DataListDesigner();

[C++] public: DataListDesigner();

[VB] Public Sub New()

[JScript] public function DataListDesigner();

Description

Initializes a new instance of the **System.Web.UI.Design.WebControls.DataListDesigner** class.

ActiveTemplateEditingFrame

AllowResize

ToString

Description

Indicates whether the data list can be resized.

AssociatedComponents

Behavior

CanEnterTemplateMode

Component

DataBindings

DataKeyField

DataMember

DataSource

DesignTimeElement

DesignTimeElementView

DesignTimeHtmlRequiresLoadComplete

HidePropertiesInTemplateMode

ID

InheritanceAttribute

Inherited

InTemplateMode

IsDirty

ReadOnly

ShadowProperties

ShouldCodeSerialize

TemplatesExist

ToString

Description

Indicates whether templates associated to the designer currently exist.

Verbs

CreateTemplateEditingFrame

[C#] protected override ITemplateEditingFrame CreateTemplateEditingFrame(TemplateEditingVerb verb);

[C++] protected: ITemplateEditingFrame* CreateTemplateEditingFrame(TemplateEditingVerb* verb);

[VB] Overrides Protected Function CreateTemplateEditingFrame(ByVal verb As TemplateEditingVerb) As ITemplateEditingFrame

[JScript] protected override function CreateTemplateEditingFrame(verb : TemplateEditingVerb) : ITemplateEditingFrame;

Description

Creates a template editing frame using the specified verb.

Return Value: An **System.Web.UI.Design.ITemplateEditingFrame** . The verb that was invoked to create a template editing frame.

Dispose

[C#] protected override void Dispose(bool disposing);

[C++] protected: void Dispose(bool disposing);

[VB] Overrides Protected Sub Dispose(ByVal disposing As Boolean)

[JScript] protected override function Dispose(disposing : Boolean);

Description

Releases the unmanaged resources used by the **System.Web.UI.Design.WebControls.DataListDesigner** and optionally releases the managed resources.

This method is called by the public **Dispose()** method and the **System.Object.Finalize** method. **true** to release both managed and unmanaged resources; **false** to release only unmanaged resources.

GetCachedTemplateEditingVerbs

[C#] protected override TemplateEditingVerb[] GetCachedTemplateEditingVerbs();

[C++] protected: TemplateEditingVerb* GetCachedTemplateEditingVerbs() [];

[VB] Overrides Protected Function GetCachedTemplateEditingVerbs() As TemplateEditingVerb()

[JScript] protected override function GetCachedTemplateEditingVerbs() : TemplateEditingVerb[];

Description

Gets the cached template editing verbs available to this designer.

Return Value: The cached template editing verbs available to this designer.

GetDesignTimeHtml

[C#] public override string GetDesignTimeHtml();

[C++] public: String* GetDesignTimeHtml();

[VB] Overrides Public Function GetDesignTimeHtml() As String

[JScript] public override function GetDesignTimeHtml() : String;

Description

Gets the HTML that is used to represent the control at design time.

Return Value: The HTML that is used to represent the control at design time.

GetEmptyDesignTimeHtml

[C#] protected override string GetEmptyDesignTimeHtml();

[C++] protected: String* GetEmptyDesignTimeHtml();

[VB] Overrides Protected Function GetEmptyDesignTimeHtml() As String

[JScript] protected override function GetEmptyDesignTimeHtml() : String;

Description

Gets the HTML used to represent an empty template-based control at design time.

Return Value: The HTML used to represent an empty template-based control at design time.

GetErrorDesignTimeHtml

[C#] protected override string GetErrorDesignTimeHtml(Exception e);

[C++] protected: String* GetErrorDesignTimeHtml(Exception* e);

[VB] Overrides Protected Function GetErrorDesignTimeHtml(ByVal e As Excéption) As String

[JScript] protected override function GetErrorDesignTimeHtml(e : Exception) : String;

Description

Gets the HTML to display at design-time for the specified exception when an error has been encountered while rendering the control.

Return Value: The HTML displayed at design-time for the specified exception. The exception to display the error message for.

GetTemplateContainerDataItemProperty

[C#] public override string GetTemplateContainerDataItemProperty(string templateName);

[C++] public: String* GetTemplateContainerDataItemProperty(String* templateName);

[VB] Overrides Public Function GetTemplateContainerDataItemProperty(ByVal templateName As String) As String

[JScript] public override function GetTemplateContainerDataItemProperty(templateName : String) : String;

Description

Gets the template's container's data item property.

Return Value: The data item property of the container of the template. The name of the template.

GetTemplateContent

[C#] public override string GetTemplateContent(ITemplateEditingFrame editingFrame, string templateName, out bool allowEditing);

[C++] public: String* GetTemplateContent(ITemplateEditingFrame* editingFrame, String* templateName, bool* allowEditing);

[VB] Overrides Public Function GetTemplateContent(ByVal editingFrame As ITemplateEditingFrame, ByVal templateName As String, ByRef allowEditing As Boolean) As String

[JScript] public override function GetTemplateContent(editingFrame : ITemplateEditingFrame, templateName : String, allowEditing : Boolean) : String;

Description

Gets the template's content.

Return Value: The template's content. The template frame to get content from. The name of the template. A boolean variable that will be set to **true** if the template's content can be edited, or **false** if the content is read-only.

Initialize

[C#] public override void Initialize(IComponent component);

[C++] public: void Initialize(IComponent* component);

[VB] Overrides Public Sub Initialize(ByVal component As IComponent)

[JScript] public override function Initialize(component : IComponent);

Description

Initializes the designer with the **System.Web.UI.WebControls.DataList** control that this instance of the designer is associated with. The associated **System.Web.UI.WebControls.DataList** control.

OnTemplateEditingVerbsChanged

[C#] protected override void OnTemplateEditingVerbsChanged();

[C++] protected: void OnTemplateEditingVerbsChanged();

[VB] Overrides Protected Sub OnTemplateEditingVerbsChanged()

[JScript] protected override function OnTemplateEditingVerbsChanged();

Description

Provides an opportunity to do processing or other actions when a change has been made to the template editing verbs.

SetTemplateContent

[C#] public override void SetTemplateContent(ITemplateEditingFrame editingFrame, string templateName, string templateContent);

[C++] public: void SetTemplateContent(ITemplateEditingFrame* editingFrame, String* templateName, String* templateContent);

[VB] Overrides Public Sub SetTemplateContent(ByVal editingFrame As ITemplateEditingFrame, ByVal templateName As String, ByVal templateContent As String)

[JScript] public override function SetTemplateContent(editingFrame : ITemplateEditingFrame, templateName : String, templateContent : String);

Description

Sets the template's content. The template frame to set content for. The name of the template. The content to set.

HyperLinkDesigner class (System.Web.UI.Design.WebControls)

UpdateDesignTimeHtml

Description

Provides design-time support for the **System.Web.UI.WebControls.HyperLink** Web server control.

HyperLinkDesigner

Example Syntax:

UpdateDesignTimeHtml

[C#] public HyperLinkDesigner();

[C++] public: HyperLinkDesigner();

[VB] Public Sub New()

[JScript] public function HyperLinkDesigner();

AllowResize

AssociatedComponents

Behavior

Component

DataBindings

DesignTimeElement

DesignTimeElementView

DesignTimeHtmlRequiresLoadComplete

ID

InheritanceAttribute

Inherited

IsDirty

ReadOnly

ShadowProperties

ShouldCodeSerialize

Verbs

GetDesignTimeHtml

[C#] public override string GetDesignTimeHtml();

[C++] public: String* GetDesignTimeHtml();

[VB] Overrides Public Function GetDesignTimeHtml() As String

[JScript] public override function GetDesignTimeHtml() : String;

Description

Gets the HTML that is used to represent the control at design time.

Return Value: The HTML that is used to represent the control at design time.

LabelDesigner class (System.Web.UI.Design.WebControls)

UpdateDesignTimeHtml

Description

Provides design-time support for the **System.Web.UI.WebControls.Label** Web server control.

LabelDesigner

Example Syntax:

UpdateDesignTimeHtml

[C#] public LabelDesigner();

[C++] public: LabelDesigner();

[VB] Public Sub New()

[JScript] public function LabelDesigner();

AllowResize

AssociatedComponents

Behavior

Component

DataBindings

DesignTimeElement

DesignTimeElementView

DesignTimeHtmlRequiresLoadComplete

ID

InheritanceAttribute

Inherited

IsDirty

ReadOnly

ShadowProperties

ShouldCodeSerialize

Verbs

LinkButtonDesigner class (System.Web.UI.Design.WebControls)

UpdateDesignTimeHtml

Description

Provides design-time support for the **System.Web.UI.WebControls.LinkButton** Web server control.

LinkButtonDesigner

Example Syntax:

UpdateDesignTimeHtml

[C#] public LinkButtonDesigner();

[C++] public: LinkButtonDesigner();

[VB] Public Sub New()

[JScript] public function LinkButtonDesigner();

AllowResize

AssociatedComponents

Behavior

Component

DataBindings

DesignTimeElement

DesignTimeElementView

DesignTimeHtmlRequiresLoadComplete

ID

InheritanceAttribute

Inherited

IsDirty

ReadOnly

ShadowProperties

ShouldCodeSerialize

Verbs

ListControlDataBindingHandler class (System.Web.UI.Design.WebControls)

UpdateDesignTimeHtml

Description

Provides a data binding handler for a **System.Web.UI.WebControls.ListControl** .

ListControlDataBindingHandler

Example Syntax:

UpdateDesignTimeHtml

[C#] public ListControlDataBindingHandler();

[C++] public: ListControlDataBindingHandler();

[VB] Public Sub New()

[JScript] public function ListControlDataBindingHandler();

DataBindControl

[C#] public override void DataBindControl(IDesignerHost designerHost, Control control);

[C++] public: void DataBindControl(IDesignerHost* designerHost, Control*

control);

[VB] Overrides Public Sub DataBindControl(ByVal designerHost As IDesignerHost, ByVal control As Control)

[JScript] public override function DataBindControl(designerHost : IDesignerHost, control : Control);

Description

Adds a data binding to the specified control. The designer host for the document that contains the control. The control to add this data binding to.

ListControlDesigner class (System.Web.UI.Design.WebControls)

ToString

Description

Provides design-time support for **System.Web.UI.WebControls.ListControl** Web server controls.

ListControlDesigner

Example Syntax:

ToString

[C#] public ListControlDesigner();

[C++] public: ListControlDesigner();

[VB] Public Sub New()

[JScript] public function ListControlDesigner();

Description

Initializes a new instance of the **System.Web.UI.Design.WebControls.ListControlDesigner** class.

AllowResize

AssociatedComponents

Behavior

Component

DataBindings

DataMember

ToString

Description

Gets or sets the data member for the control.

DataSource

ToString

[C#] public string DataSource {get; set;}

[C++] public: __property String* get_DataSource();public: __property void set_DataSource(String*);

[VB] Public Property DataSource As String

[JScript] public function get DataSource() : String;public function set DataSource(String);

Description

Gets or sets the data source property of the control.

DataTextField

ToString

[C#] public string DataTextField {get; set;}

[C++] public: __property String* get_DataTextField();public: __property void set_DataTextField(String*);

[VB] Public Property DataTextField As String

[JScript] public function get DataTextField() : String;public function set DataTextField(String);

Description

Gets or sets the data text field of the control.

DataValueField

ToString

[C#] public string DataValueField {get; set;}

[C++] public: __property String* get_DataValueField();public: __property void set_DataValueField(String*);

[VB] Public Property DataValueField As String

[JScript] public function get DataValueField() : String;public function set DataValueField(String);

Description

Gets or sets the data value field of the control.

DesignTimeElement

DesignTimeElementView

DesignTimeHtmlRequiresLoadComplete

ID

InheritanceAttribute

Inherited

IsDirty

ReadOnly

ShadowProperties

ShouldCodeSerialize

Verbs

GetDesignTimeHtml

[C#] public override string GetDesignTimeHtml();

[C++] public: String* GetDesignTimeHtml();

[VB] Overrides Public Function GetDesignTimeHtml() As String

[JScript] public override function GetDesignTimeHtml() : String;

Description

Gets the HTML that is used to represent the control at design time.

Return Value: The HTML that is used to represent the control at design time.

GetResolvedSelectedDataSource

[C#] public IEnumerable GetResolvedSelectedDataSource();

[C++] public: __sealed IEnumerable* GetResolvedSelectedDataSource();

[VB] NotOverridable Public Function GetResolvedSelectedDataSource() As IEnumerable

[JScript] public function GetResolvedSelectedDataSource() : IEnumerable;

Description

Gets the data member that is currently selected within the data source currently bound to the control.

Return Value: The currently selected data member, or **null** if the control was not bound to a data source, or the data source, site of the designer's component, or the container of the data source could not be accessed.

GetSelectedDataSource

[C#] public object GetSelectedDataSource();

[C++] public: __sealed Object* GetSelectedDataSource();

[VB] NotOverridable Public Function GetSelectedDataSource() As Object

[JScript] public function GetSelectedDataSource() : Object;

Description

Gets the selected data source component from the component's container.

Return Value: The selected data source, or **null** if a data source is not found or if a data source with the same name does not exist.

Initialize

```
[C#] public override void Initialize(IComponent component);
[C++] public: void Initialize(IComponent* component);
[VB] Overrides Public Sub Initialize(ByVal component As IComponent)
[JScript] public override function Initialize(component : IComponent);
```

Description

Initializes the component for design.

This method is called to initialize the designer with the component to design. The control that is being designed.

OnComponentChanged

```
[C#] public override void OnComponentChanged(object source,
ComponentChangedEventArgs ce);
[C++] public: void OnComponentChanged(Object* source,
ComponentChangedEventArgs* ce);
[VB] Overrides Public Sub OnComponentChanged(ByVal source As Object,
ByVal ce As ComponentChangedEventArgs)
[JScript] public override function OnComponentChanged(source : Object, ce :
ComponentChangedEventArgs);
```

Description

Raises the ComponentChanged event.

Handles changes made to the component. This includes changes made in the Properties window. The source of the event. A

System.ComponentModel.Design.ComponentChangedEventArgs that provides data about the event.

OnDataSourceChanged

[C#] public virtual void OnDataSourceChanged();

[C++] public: virtual void OnDataSourceChanged();

[VB] Overridable Public Sub OnDataSourceChanged()

[JScript] public function OnDataSourceChanged();

Description

Raises the DataSource event.

Handles changes made to the data source.

PreFilterProperties

[C#] protected override void PreFilterProperties(IDictionary properties);

[C++] protected: void PreFilterProperties(IDictionary* properties);

[VB] Overrides Protected Sub PreFilterProperties(ByVal properties As IDictionary)

[JScript] protected override function PreFilterProperties(properties : IDictionary);

Description

Filters the properties exposed through a **System.ComponentModel.TypeDescriptor** and replaces the property descriptor for the DataSource property, which contains the value used at runtime, with a property descriptor that contains a value indicating a design-time data source. The properties of the control.

ListItemsCollectionEditor class (System.Web.UI.Design.WebControls)

UpdateDesignTimeHtml

Description

Provides a user interface for editing the items collection of a list.

ListItemsCollectionEditor

Example Syntax:

UpdateDesignTimeHtml

```
[C#] public ListItemsCollectionEditor(Type type);
[C++] public: ListItemsCollectionEditor(Type* type);
[VB] Public Sub New(ByVal type As Type)
[JScript] public function ListItemsCollectionEditor(type : Type);
```

Description

Initializes a new instance of the **System.Web.UI.Design.WebControls.ListItemsCollectionEditor** class. The type of the collection to edit.

CollectionItemType

CollectionType

Context

HelpTopic

NewItemTypes

CanSelectMultipleInstances

[C#] protected override bool CanSelectMultipleInstances();

[C++] protected: bool CanSelectMultipleInstances();

[VB] Overrides Protected Function CanSelectMultipleInstances() As Boolean

[JScript] protected override function CanSelectMultipleInstances() : Boolean;

Description

Indicates whether multiple items in the list can be selected at the same time. *Return Value:* **true** if multiple items can be selected at the same time; otherwise, **false** .

PanelDesigner class (System.Web.UI.Design.WebControls)

ToString

Description

Provides design-time support for the **System.Web.UI.WebControls.Panel** Web server control.

PanelDesigner

Example Syntax:

ToString

[C#] public PanelDesigner();

[C++] public: PanelDesigner();

[VB] Public Sub New()

[JScript] public function PanelDesigner();

AllowResize

AssociatedComponents

Behavior

Component

DataBindings

DesignTimeElement

DesignTimeElementView

DesignTimeHtmlRequiresLoadComplete

ID

InheritanceAttribute

Inherited

IsDirty

ReadOnly

ShadowProperties

ShouldCodeSerialize

Verbs

MapPropertyToStyle

[C#] protected override void MapPropertyToStyle(string propName, object varPropValue);

[C++] protected: void MapPropertyToStyle(String* propName, Object* varPropValue);

[VB] Overrides Protected Sub MapPropertyToStyle(ByVal propName As String,

```
ByVal varPropValue As Object)
[JScript] protected override function MapPropertyToStyle(propName : String,
varPropValue : Object);
```

Description

Maps a specified property and value to a specified HTML style. The property name. The property value.

OnBehaviorAttached

```
[C#] protected override void OnBehaviorAttached();
[C++] protected: void OnBehaviorAttached();
[VB] Overrides Protected Sub OnBehaviorAttached()
[JScript] protected override function OnBehaviorAttached();
```

Description

Provides notification when a behavior is attached to the designer.

RegexEditorDialog class (System.Web.UI.Design.WebControls)

UpdateDesignTimeHtml

Description

Provides a dialog for editing regular expressions used by the **System.Web.UI.WebControls.RegularExpressionValidator** .

RegexEditorDialog

Example Syntax:

UpdateDesignTimeHtml

[C#] public RegexEditorDialog(ISite site);

[C++] public: RegexEditorDialog(ISite* site);

[VB] Public Sub New(ByVal site As ISite)

[JScript] public function RegexEditorDialog(site : ISite);

Description

Initializes a new instance of the **System.Web.UI.Design.WebControls.RegexEditorDialog** class. The site for this dialog.

AcceptButton

AccessibilityObject

AccessibleDefaultActionDescription

AccessibleDescription

AccessibleName

AccessibleRole

ActiveControl

ActiveMdiChild

AllowDrop

AllowTransparency

Anchor

AutoScale

AutoScaleBaseSize

AutoScroll

AutoScrollMargin

AutoScrollMinSize

AutoScrollPosition

BackColor

BackgroundImage

BindingContext

Bottom

Bounds

CancelButton

CanFocus

CanSelect

Capture

CausesValidation

ClientRectangle

ClientSize

CompanyName

Container

ContainsFocus

ContextMenu

ControlBox

Controls

Created

CreateParams

Cursor

DataBindings

DefaultImeMode

DefaultSize

DesignMode

DesktopBounds

DesktopLocation

DialogResult

DisplayRectangle

Disposing

Dock

DockPadding

Enabled

Events

Focused

Font

FontHeight

ForeColor

FormBorderStyle

Handle

HasChildren

Height

HelpButton

HScroll

Icon

ImeMode

InvokeRequired

IsAccessible

IsDisposed

IsHandleCreated

IsMdiChild

IsMdiContainer

IsRestrictedWindow

KeyPreview

Left

Location

MaximizeBox

MaximizedBounds

MaximumSize

MdiChildren

MdiParent

Menu

MergedMenu

MinimizeBox

MinimumSize

Modal

Name

Opacity

OwnedForms

Owner

Parent

ParentForm

ProductName

ProductVersion

RecreatingHandle

Region

RegularExpression

UpdateDesignTimeHtml

Description

Gets or sets the name of the regular expression to edit.

RenderRightToLeft

ResizeRedraw

Right

RightToLeft

ShowFocusCues

ShowInTaskbar

ShowKeyboardCues

Site

Size

SizeGripStyle

StartPosition

TabIndex

TabStop

Tag

Text

Top

TopLevel

TopLevelControl

TopMost

TransparencyKey

Visible

VScroll

Width

WindowState

WindowTarget

cmdHelp_Click

```
[C#] protected void cmdHelp_Click(object sender, EventArgs e);
[C++] protected: void cmdHelp_Click(Object* sender, EventArgs* e);
[VB] Protected Sub cmdHelp_Click(ByVal sender As Object, ByVal e As EventArgs)
[JScript] protected function cmdHelp_Click(sender : Object, e : EventArgs);
```

Description

Represents the method that will handle the Help event of the dialog. The source of the event. An EventArgs that provides data for the event.

cmdOK_Click

```
[C#] protected void cmdOK_Click(object sender, EventArgs e);
[C++] protected: void cmdOK_Click(Object* sender, EventArgs* e);
```

[VB] Protected Sub cmdOK_Click(ByVal sender As Object, ByVal e As EventArgs)

[JScript] protected function cmdOK_Click(sender : Object, e : EventArgs);

Description

Represents the method that will handle the OK event of the dialog. The source of the event. An EventArgs that provides data for the event.

cmdTestValidate_Click

[C#] protected void cmdTestValidate_Click(object sender, EventArgs args);

[C++] protected: void cmdTestValidate_Click(Object* sender, EventArgs* args);

[VB] Protected Sub cmdTestValidate_Click(ByVal sender As Object, ByVal args As EventArgs)

[JScript] protected function cmdTestValidate_Click(sender : Object, args : EventArgs);

Description

Represents the method that will handle the XXX event of a XXX. The source of the event. An EventArgs that provides data for the event.

Dispose

[C#] protected override void Dispose(bool disposing);

[C++] protected: void Dispose(bool disposing);

[VB] Overrides Protected Sub Dispose(ByVal disposing As Boolean)

[JScript] protected override function Dispose(disposing : Boolean);

Description

Releases the unmanaged resources used by the **System.Web.UI.Design.WebControls.RegexEditorDialog** and optionally releases the managed resources.

This method is called by the public **Dispose()** method and the **System.Object.Finalize** method.

lstStandardExpressions_SelectedIndexChanged

[C#] protected void lstStandardExpressions_SelectedIndexChanged(object sender, EventArgs e);

[C++] protected: void lstStandardExpressions_SelectedIndexChanged(Object* sender, EventArgs* e);

[VB] Protected Sub lstStandardExpressions_SelectedIndexChanged(ByVal sender As Object, ByVal e As EventArgs)

[JScript] protected function lstStandardExpressions_SelectedIndexChanged(sender : Object, e : EventArgs);

Description

Represents the method that will handle the XXX event of a XXX. The source of the event. An EventArgs that provides data for the event.

RegexTypeEditor_Activated

[C#] protected void RegexTypeEditor_Activated(object sender, EventArgs e);

[C++] protected: void RegexTypeEditor_Activated(Object* sender, EventArgs* e);

[VB] Protected Sub RegexTypeEditor_Activated(ByVal sender As Object, ByVal e As EventArgs)

[JScript] protected function RegexTypeEditor_Activated(sender : Object, e : EventArgs);

Description

Represents the method that will handle the XXX event of a XXX. The source of the event. An EventArgs that provides data for the event.

txtExpression_TextChanged

[C#] protected void txtExpression_TextChanged(object sender, EventArgs e);

[C++] protected: void txtExpression_TextChanged(Object* sender, EventArgs* e);

[VB] Protected Sub txtExpression_TextChanged(ByVal sender As Object, ByVal e As EventArgs)

[JScript] protected function txtExpression_TextChanged(sender : Object, e : EventArgs);

Description

Represents the method that will handle the XXX event of a XXX. The source of the event. An EventArgs that provides data for the event.

RegexTypeEditor class (System.Web.UI.Design.WebControls)

WndProc

Description

Provides a user interface for editing regular expressions.

RegexTypeEditor

Example Syntax:

WndProc

[C#] public RegexTypeEditor();

[C++] public: RegexTypeEditor();

[VB] Public Sub New()

[JScript] public function RegexTypeEditor();

EditValue

[C#] public override object EditValue(ITypeDescriptorContext context, IServiceProvider provider, object value);

[C++] public: Object* EditValue(ITypeDescriptorContext* context, IServiceProvider* provider, Object* value);

[VB] Overrides Public Function EditValue(ByVal context As ITypeDescriptorContext, ByVal provider As IServiceProvider, ByVal value As Object) As Object

[JScript] public override function EditValue(context : ITypeDescriptorContext, provider : IServiceProvider, value : Object) : Object;

Description

Edits the value of the specified object using the specified service provider and context.

Return Value: The new value of the object. If the value of the object hasn't changed, this should return the same object it was passed. An **System.ComponentModel.ITypeDescriptorContext** that can provide additional context information. A service provider. The object to edit the value of.

GetEditStyle

[C#] public override UITypeEditorEditStyle GetEditStyle(ITypeDescriptorContext context);
[C++] public: UITypeEditorEditStyle GetEditStyle(ITypeDescriptorContext* context);
[VB] Overrides Public Function GetEditStyle(ByVal context As ITypeDescriptorContext) As UITypeEditorEditStyle
[JScript] public override function GetEditStyle(context : ITypeDescriptorContext) : UITypeEditorEditStyle;

Description

Gets the editor style used by the **System.Web.UI.Design.WebControls.RegexTypeEditor.EditValue(System.ComponentModel.ITypeDescriptorContext,System.IServiceProvider,System.Object)** method.

Return Value: A **System.Drawing.Design.UITypeEditorEditStyle** that indicates the editor style. An **System.ComponentModel.ITypeDescriptorContext** that may be used to gain additional context information.

RepeaterDesigner class (System.Web.UI.Design.WebControls)

ToString

Description

Provides a designer for the **System.Web.UI.WebControls.Repeater** control.

RepeaterDesigner

Example Syntax:

ToString

[C#] public RepeaterDesigner();

[C++] public: RepeaterDesigner();

[VB] Public Sub New()

[JScript] public function RepeaterDesigner();

Description

Initializes a new instance of the **System.Web.UI.Design.WebControls.RepeaterDesigner** class.

AllowResize

AssociatedComponents

Behavior

Component

DataBindings

DataMember

ToString

Description

DataSource

ToString

[C#] public string DataSource {get; set;}

[C++] public: __property String* get_DataSource();public: __property void set_DataSource(String*);

[VB] Public Property DataSource As String

[JScript] public function get DataSource() : String;public function set DataSource(String);

Description

Designer implementation of DataSource property that operates on the DataSource property in the control's binding collection.

DesignTimeElement

DesignTimeElementView

DesignTimeHtmlRequiresLoadComplete

ID

InheritanceAttribute

Inherited

IsDirty

ReadOnly

ShadowProperties

ShouldCodeSerialize

TemplatesExist

ToString

Description

Verbs

Dispose

[C#] protected override void Dispose(bool disposing);

[C++] protected: void Dispose(bool disposing);

[VB] Overrides Protected Sub Dispose(ByVal disposing As Boolean)

[JScript] protected override function Dispose(disposing : Boolean);

Description

Performs the cleanup of the designer class.

GetDesignTimeDataSource

[C#] protected IEnumerable GetDesignTimeDataSource(int minimumRows);

[C++] protected: IEnumerable* GetDesignTimeDataSource(int minimumRows);

[VB] Protected Function GetDesignTimeDataSource(ByVal minimumRows As Integer) As IEnumerable

[JScript] protected function GetDesignTimeDataSource(minimumRows : int) :

IEnumerable;

Description

Returns a sample data matching the schema of the selected datasource.

Return Value: A live datasource for use at design-time. The minimumn rows of sample data the datasource should contain.

GetDesignTimeDataSource

[C#] protected IEnumerable GetDesignTimeDataSource(IEnumerable selectedDataSource, int minimumRows);

[C++] protected: IEnumerable* GetDesignTimeDataSource(IEnumerable* selectedDataSource, int minimumRows);

[VB] Protected Function GetDesignTimeDataSource(ByVal selectedDataSource As IEnumerable, ByVal minimumRows As Integer) As IEnumerable

[JScript] protected function GetDesignTimeDataSource(selectedDataSource : IEnumerable, minimumRows : int) : IEnumerable;

Description

Returns a sample data matching the schema of the selected datasource.

Return Value: A live datasource for use at design-time. The selected datasource to be used as a reference for the shape of the data. The minimumn rows of sample data the datasource should contain.

GetDesignTimeHtml

[C#] public override string GetDesignTimeHtml();

[C++] public: String* GetDesignTimeHtml();

[VB] Overrides Public Function GetDesignTimeHtml() As String

[JScript] public override function GetDesignTimeHtml() : String;

Description

Retrieves the HTML to be used for the design-time representation of the control.

Return Value: Design Time HTML.

GetEmptyDesignTimeHtml

[C#] protected override string GetEmptyDesignTimeHtml();

[C++] protected: String* GetEmptyDesignTimeHtml();

[VB] Overrides Protected Function GetEmptyDesignTimeHtml() As String

[JScript] protected override function GetEmptyDesignTimeHtml() : String;

Description

GetErrorDesignTimeHtml

[C#] protected override string GetErrorDesignTimeHtml(Exception e);

[C++] protected: String* GetErrorDesignTimeHtml(Exception* e);

[VB] Overrides Protected Function GetErrorDesignTimeHtml(ByVal e As Exception) As String

[JScript] protected override function GetErrorDesignTimeHtml(e : Exception) : String;

Description

GetResolvedSelectedDataSource

```
[C#] public IEnumerable GetResolvedSelectedDataSource();
[C++] public: __sealed IEnumerable* GetResolvedSelectedDataSource();
[VB] NotOverridable Public Function GetResolvedSelectedDataSource() As IEnumerable
[JScript] public function GetResolvedSelectedDataSource() : IEnumerable;
```

Description

GetSelectedDataSource

```
[C#] public object GetSelectedDataSource();
[C++] public: __sealed Object* GetSelectedDataSource();
[VB] NotOverridable Public Function GetSelectedDataSource() As Object
[JScript] public function GetSelectedDataSource() : Object;
```

Description

Retrieves the selected datasource component from the component's container.

Return Value: The selected datasource; null if a datasource is not found, or a datasource with the same name does not exist.

Initialize

[C#] public override void Initialize(IComponent component);

[C++] public: void Initialize(IComponent* component);

[VB] Overrides Public Sub Initialize(ByVal component As IComponent)

[JScript] public override function Initialize(component : IComponent);

Description

Initializes the designer with the Repeater control that this instance of the designer is associated with. The associated Repeater control.

OnComponentChanged

[C#] public override void OnComponentChanged(object source, ComponentChangedEventArgs ce);

[C++] public: void OnComponentChanged(Object* source, ComponentChangedEventArgs* ce);

[VB] Overrides Public Sub OnComponentChanged(ByVal source As Object, ByVal ce As ComponentChangedEventArgs)

[JScript] public override function OnComponentChanged(source : Object, ce : ComponentChangedEventArgs);

Description

Handles changes made to the component. This includes changes made in the Properties window.

OnDataSourceChanged

[C#] public virtual void OnDataSourceChanged();

[C++] public: virtual void OnDataSourceChanged();

[VB] Overridable Public Sub OnDataSourceChanged()

[JScript] public function OnDataSourceChanged();

Description

Handles changes made to the data source Handles changes made to the data source

PreFilterProperties

[C#] protected override void PreFilterProperties(IDictionary properties);

[C++] protected: void PreFilterProperties(IDictionary* properties);

[VB] Overrides Protected Sub PreFilterProperties(ByVal properties As IDictionary)

[JScript] protected override function PreFilterProperties(properties : IDictionary);

Description

Filter the properties to replace the runtime DataSource property descriptor with the designer's.

TableCellsCollectionEditor class (System.Web.UI.Design.WebControls)

UpdateDesignTimeHtml

Description

Provides a user interface for editing cells in a table.

TableCellsCollectionEditor

Example Syntax:

UpdateDesignTimeHtml

[C#] public TableCellsCollectionEditor(Type type);

[C++] public: TableCellsCollectionEditor(Type* type);

[VB] Public Sub New(ByVal type As Type)

[JScript] public function TableCellsCollectionEditor(type : Type);

Description

Initializes a new instance of the **System.Web.UI.Design.WebControls.TableCellsCollectionEditor** class. The type of the collection to edit.

CollectionItemType

CollectionType

Context

HelpTopic

NewItemTypes

CanSelectMultipleInstances

[C#] protected override bool CanSelectMultipleInstances();

[C++] protected: bool CanSelectMultipleInstances();

[VB] Overrides Protected Function CanSelectMultipleInstances() As Boolean

[JScript] protected override function CanSelectMultipleInstances() : Boolean;

Description

Indicates whether multiple table cells can be selected at the same time.

Return Value: **true** if multiple cells can be selected at the same time; otherwise, **false** .

CreateInstance

[C#] protected override object CreateInstance(Type itemType);

[C++] protected: Object* CreateInstance(Type* itemType);

[VB] Overrides Protected Function CreateInstance(ByVal itemType As Type) As Object

[JScript] protected override function CreateInstance(itemType : Type) : Object;

Description

Creates an instance of the editor for use with the specified type.

Return Value: An object of the specified type. The type to create an instance of.

TableDesigner class (System.Web.UI.Design.WebControls)

ToString

Description

Provides design-time support for the **System.Web.UI.WebControls.Table** Web server control.

TableDesigner

Example Syntax:

ToString

[C#] public TableDesigner();

[C++] public: TableDesigner();

[VB] Public Sub New()

[JScript] public function TableDesigner();

AllowResize

AssociatedComponents

Behavior

Component

DataBindings

DesignTimeElement

DesignTimeElementView

DesignTimeHtmlRequiresLoadComplete

ID

InheritanceAttribute

Inherited

IsDirty

ReadOnly

ShadowProperties

ShouldCodeSerialize

Verbs

GetDesignTimeHtml

[C#] public override string GetDesignTimeHtml();

[C++] public: String* GetDesignTimeHtml();

[VB] Overrides Public Function GetDesignTimeHtml() As String

[JScript] public override function GetDesignTimeHtml() : String;

Description

Gets the HTML that is used to represent the control at design time.

Return Value: The HTML that is used to represent the control at design time.

TableRowsCollectionEditor class (System.Web.UI.Design.WebControls)

UpdateDesignTimeHtml

Description

Provides a user interface for editing rows of a table.

TableRowsCollectionEditor

Example Syntax:

UpdateDesignTimeHtml

[C#] public TableRowsCollectionEditor(Type type);

[C++] public: TableRowsCollectionEditor(Type* type);

[VB] Public Sub New(ByVal type As Type)

[JScript] public function TableRowsCollectionEditor(type : Type);

Description

Initializes a new instance of the **System.Web.UI.Design.WebControls.TableRowsCollectionEditor** class. The type of the collection to edit.

CollectionItemType

CollectionType

Context

HelpTopic

NewItemTypes

CanSelectMultipleInstances

[C#] protected override bool CanSelectMultipleInstances();

[C++] protected: bool CanSelectMultipleInstances();

[VB] Overrides Protected Function CanSelectMultipleInstances() As Boolean

[JScript] protected override function CanSelectMultipleInstances() : Boolean;

Description

Indicates whether multiple instances may be selected.

Return Value: **true** if multiple items can be selected at once; otherwise, **false** . This implementation always returns **false** .

CreateInstance

[C#] protected override object CreateInstance(Type itemType);

[C++] protected: Object* CreateInstance(Type* itemType);

[VB] Overrides Protected Function CreateInstance(ByVal itemType As Type) As Object

[JScript] protected override function CreateInstance(itemType : Type) : Object;

Description

Creates an instance of the specified type.

Return Value: An object of the specified type. The type to create an instance of.

XmlDesigner class (System.Web.UI.Design.WebControls)

ToString

Description

Provides a designer for the **System.Web.UI.WebControls.Xml** Web server control.

XmlDesigner

Example Syntax:

ToString

[C#] public XmlDesigner();

[C++] public: XmlDesigner();

[VB] Public Sub New()

[JScript] public function XmlDesigner();

Description

Initializes a new instance of the **System.Web.UI.Design.WebControls.XmlDesigner** class.

AllowResize

AssociatedComponents

Behavior

Component

DataBindings

DesignTimeElement

DesignTimeElementView

DesignTimeHtmlRequiresLoadComplete

ID

InheritanceAttribute

Inherited

IsDirty

ReadOnly

ShadowProperties

ShouldCodeSerialize

Verbs

Dispose

[C#] protected override void Dispose(bool disposing);

[C++] protected: void Dispose(bool disposing);

[VB] Overrides Protected Sub Dispose(ByVal disposing As Boolean)

[JScript] protected override function Dispose(disposing : Boolean);

Description

Performs the cleanup of the designer class.

GetDesignTimeHtml

[C#] public override string GetDesignTimeHtml();

[C++] public: String* GetDesignTimeHtml();

[VB] Overrides Public Function GetDesignTimeHtml() As String

[JScript] public override function GetDesignTimeHtml() : String;

Description

Gets the HTML that is used to represent the control at design time.

Return Value: The HTML that is used to represent the control at design time.

GetEmptyDesignTimeHtml

[C#] protected override string GetEmptyDesignTimeHtml();

[C++] protected: String* GetEmptyDesignTimeHtml();

[VB] Overrides Protected Function GetEmptyDesignTimeHtml() As String

[JScript] protected override function GetEmptyDesignTimeHtml() : String;

Description

Gets the HTML that is used to fill an empty control.

Return Value: The HTML used to fill an empty control.

Initialize

[C#] public

System.Web.UI.HtmlControls

Description

The System.Web.UI.HtmlControls namespace is a collection of classes that allow you to create HTML server controls on a Web page. HTML server controls run on the server and map directly to standard HTML tags supported by all browsers. This allows you to programmatically control the HTML elements on the Web page.

HtmlAnchor class (System.Web.UI.HtmlControls)

Description

Defines the methods, properties, and events for the System.Web.UI.HtmlControls.HtmlAnchor control. This class allows programmatic access to the HTML tag on the server.

There are two ways to use the System.Web.UI.HtmlControls.HtmlAnchor class. The first is for navigation: using the System.Web.UI.HtmlControls.HtmlAnchor.HRef property to define the location of the page to link to. The second is for postback events: using the System.Web.UI.HtmlControls.HtmlAnchor.ServerClick event to programmatically handle the user's click on a link.

Constructors:

HtmlAnchor

Example Syntax:

[C#] public HtmlAnchor();

[C++] public: HtmlAnchor();

[VB] Public Sub New()

[JScript] public function HtmlAnchor();

Description

Initializes a new instance of the System.Web.UI.HtmlControls.HtmlAnchor class.

Properties:

Attributes

ChildControlsCreated

ClientID

Context

Controls

Disabled

EnableViewState

Events

HasChildViewState

HRef

Description

Gets or sets the URL target of the link specified in the System.Web.UI.HtmlControls.HtmlAnchor server control.

Use this property to specify the URL to link to when the System.Web.UI.HtmlControls.HtmlAnchor is clicked.

ID

InnerHtml

InnerText

IsTrackingViewState

Name

Description

Gets or sets the bookmark name defined in the System.Web.UI.HtmlControls.HtmlAnchor server control.

Use this property to mark sections on a Web page with a name. This allows you to link to this section from anywhere on the same page. For example, you can provide a table of contents at the top of a page that will link directly to topics on the page.

NamingContainer

Page

Parent

Site

Style

TagName

Target

Description

Gets or sets the target window or frame to load Web page content into.

Use this property to specify the frame or window that displays the Web page linked to.

TemplateSourceDirectory

Title

Description

Gets or sets the title that the browser displays for a Web page.

Use this property to specify a custom title when the browser identifies the page you link to. This property also may be used to provide a custom tool tip for the System.Web.UI.HtmlControls.HtmlAnchor control.

UniqueID

ViewState

ViewStateIgnoresCase

Visible

Description

Occurs on the server when a user clicks the System.Web.UI.HtmlControls.HtmlAnchor control on the browser.

This event is raised when the System.Web.UI.HtmlControls.HtmlAnchor is clicked.

Methods:

OnServerClick

[C#] protected virtual void OnServerClick(EventArgs e);

[C++] protected: virtual void OnServerClick(EventArgs* e);

[VB] Overridable Protected Sub OnServerClick(ByVal e As EventArgs)

[JScript] protected function OnServerClick(e : EventArgs);

Description

Raises the System.Web.UI.HtmlControls.HtmlAnchor.ServerClick event. This allows you to handle the event directly.

This server event causes a roundtrip to occur from the client to the server and back. An System.EventArgs that contains event data.

RenderAttributes

[C#] protected override void RenderAttributes(HtmlTextWriter writer);

[C++] protected: void RenderAttributes(HtmlTextWriter* writer);

[VB] Overrides Protected Sub RenderAttributes(ByVal writer As HtmlTextWriter)

[JScript] protected override function RenderAttributes(writer : HtmlTextWriter);

Description

IPostBackEventHandler.RaisePostBackEvent

[C#] void IPostBackEventHandler.RaisePostBackEvent(string eventArgument);

[C++] void IPostBackEventHandler::RaisePostBackEvent(String* eventArgument);

[VB] Sub RaisePostBackEvent(ByVal eventArgument As String) Implements IPostBackEventHandler.RaisePostBackEvent

[JScript] function IPostBackEventHandler.RaisePostBackEvent(eventArgument : String);

HtmlButton class (System.Web.UI.HtmlControls)

TrackViewState

Description

Defines the methods, properties, and events for the System.Web.UI.HtmlControls.HtmlButton control. This class allows programmatic access to the HTML tag on the server.

The element allows Web developers to create UI form buttons that can be composed of embedded HTML elements, including other server controls.

HtmlButton

Example Syntax:

TrackViewState

[C#] public HtmlButton();

```
[C++] public: HtmlButton();
[VB] Public Sub New()
[JScript] public function HtmlButton();
```

Description

Initializes a new instance of the System.Web.UI.HtmlControls.HtmlButton class.

Attributes

CausesValidation

TrackViewState

Description

Gets or sets a value indicating whether validation is performed when the System.Web.UI.HtmlControls.HtmlButton control is clicked.

By default, page validation is performed when an System.Web.UI.HtmlControls.HtmlButton control is clicked. Page validation determines whether the input controls associated with a validation control on the page all pass the validation rules specified by the validation control.

ChildControlsCreated

ClientID

Context

Controls

Disabled

EnableViewState

Events

HasChildViewState

ID

InnerHtml

InnerText

IsTrackingViewState

NamingContainer

Page

Parent

Site

Style

TagName

TemplateSourceDirectory

UniqueID

ViewState

ViewStateIgnoresCase

Visible

TrackViewState

Description

Occurs when the user clicks an System.Web.UI.HtmlControls.HtmlButton control on the client Web page.

This event is raised when the System.Web.UI.HtmlControls.HtmlButton is clicked.

OnServerClick

[C#] protected virtual void OnServerClick(EventArgs e);
[C++] protected: virtual void OnServerClick(EventArgs* e);
[VB] Overridable Protected Sub OnServerClick(ByVal e As EventArgs)
[JScript] protected function OnServerClick(e : EventArgs);

Description

Raises the System.Web.UI.HtmlControls.HtmlButton.ServerClick event. This allows you to handle the event directly.

This event causes a roundtrip to occur from the client to the server and back. It is deliberately different from the client-side OnClick event. In the event that a conflict exists between code run with a System.Web.UI.HtmlControls.HtmlButton.ServerClick event and code run by a client-side OnClick event, the server-side event instructions will override the client-side code. An System.EventArgs that contains the event data.

RenderAttributes

[C#] protected override void RenderAttributes(HtmlTextWriter writer);
[C++] protected: void RenderAttributes(HtmlTextWriter* writer);
[VB] Overrides Protected Sub RenderAttributes(ByVal writer As HtmlTextWriter)
[JScript] protected override function RenderAttributes(writer : HtmlTextWriter);

Description

IPostBackEventHandler.RaisePostBackEvent

[C#] void IPostBackEventHandler.RaisePostBackEvent(string eventArgument);

[C++] void IPostBackEventHandler::RaisePostBackEvent(String* eventArgument);

[VB] Sub RaisePostBackEvent(ByVal eventArgument As String) Implements IPostBackEventHandler.RaisePostBackEvent

[JScript] function IPostBackEventHandler.RaisePostBackEvent(eventArgument : String);

HtmlContainerControl class (System.Web.UI.HtmlControls)

TrackViewState

Description

Defines the methods, properties, and events available to all HTML server controls that must have a closing tag.

The most common controls with a closing tag are the

Top of Form

, ,

, , and elements.

HtmlContainerControl

Example Syntax:

TrackViewState

[C#] public HtmlContainerControl();

[C++] public: HtmlContainerControl();

[VB] Public Sub New()

[JScript] public function HtmlContainerControl(); Initializes a new instance of the **System.Web.UI.HtmlControls.HtmlContainerControl** class.

Description

Initializes a new instance of the **System.Web.UI.HtmlControls.HtmlContainerControl** class using default values.

Use this constructor to create and initialize a new instance of the **System.Web.UI.HtmlControls.HtmlContainerControl** class using default values.

HtmlContainerControl

Example Syntax:

TrackViewState

[C#] public HtmlContainerControl(string tag);

[C++] public: HtmlContainerControl(String* tag);

[VB] Public Sub New(ByVal tag As String)

[JScript] public function HtmlContainerControl(tag : String);

Description

Initializes a new instance of the **System.Web.UI.HtmlControls.HtmlContainerControl** class using the specified tag name.

Use this constructor to create and initialize a new instance of the **System.Web.UI.HtmlControls.HtmlContainerControl** class using the specified tag. A string that specifies the tag name of the control.

Attributes

ChildControlsCreated

ClientID

Context

Controls

Disabled

EnableViewState

Events

HasChildViewState

ID

InnerHtml

TrackViewState

Description

Gets or sets the content found between the opening and closing tags of the specified HTML server control.

Use the **System.Web.UI.HtmlControls.HtmlContainerControl.InnerHtml** property to programmatically modify the contents within the opening and closing tags of an HTML server control.

InnerText

TrackViewState

[C#] public virtual string InnerText {get; set;}
[C++] public: __property virtual String* get_InnerText();public: __property virtual void set_InnerText(String*);
[VB] Overridable Public Property InnerText As String
[JScript] public function get InnerText() : String;public function set InnerText(String);

Description

Gets or sets the text between the opening and closing tags of the specified HTML server control.

Use the **System.Web.UI.HtmlControls.HtmlContainerControl.InnerText** property to programmatically modify the contents between the opening and closing tags of an HTML server control.

IsTrackingViewState

NamingContainer

Page

Parent

Site

Style

TagName

TemplateSourceDirectory

UniqueID

ViewState

ViewStateIgnoresCase

Visible

CreateControlCollection

[C#] protected override ControlCollection CreateControlCollection();
[C++] protected: ControlCollection* CreateControlCollection();
[VB] Overrides Protected Function CreateControlCollection() As ControlCollection
[JScript] protected override function CreateControlCollection() : ControlCollection;

LoadViewState

[C#] protected override void LoadViewState(object savedState);
[C++] protected: void LoadViewState(Object* savedState);
[VB] Overrides Protected Sub LoadViewState(ByVal savedState As Object)
[JScript] protected override function LoadViewState(savedState : Object);

Description

Render

[C#] protected override void Render(HtmlTextWriter writer);

[C++] protected: void Render(HtmlTextWriter* writer);

[VB] Overrides Protected Sub Render(ByVal writer As HtmlTextWriter)

[JScript] protected override function Render(writer : HtmlTextWriter);

Description

RenderAttributes

[C#] protected override void RenderAttributes(HtmlTextWriter writer);

[C++] protected: void RenderAttributes(HtmlTextWriter* writer);

[VB] Overrides Protected Sub RenderAttributes(ByVal writer As HtmlTextWriter)

[JScript] protected override function RenderAttributes(writer : HtmlTextWriter);

Description

RenderEndTag

[C#] protected virtual void RenderEndTag(HtmlTextWriter writer);

[C++] protected: virtual void RenderEndTag(HtmlTextWriter* writer);

[VB] Overridable Protected Sub RenderEndTag(ByVal writer As HtmlTextWriter)

[JScript] protected function RenderEndTag(writer : HtmlTextWriter);

Description

HtmlControl class (System.Web.UI.HtmlControls)

TrackViewState

Description

Defines the methods, properties, and events common to all HTML server controls in the Web Forms page framework.

The **System.Web.UI.HtmlControls.HtmlControl** class provides common properties inherited by all HTML server control classes. It is not instantiated directly.

HtmlControl

Example Syntax:

TrackViewState

[C#] public HtmlControl();

[C++] public: HtmlControl();

[VB] Public Sub New()

[JScript] public function HtmlControl(); Initializes a new instance of the **System.Web.UI.HtmlControls.HtmlControl** class.

Description

Initializes a new instance of the **System.Web.UI.HtmlControls.HtmlControl** class using default values.

This constructor is used to create and initialize a new instance of the **System.Web.UI.HtmlControls.HtmlControl** class using default values.

HtmlControl

Example Syntax:

TrackViewState

[C#] public HtmlControl(string tag);

[C++] public: HtmlControl(String* tag);

[VB] Public Sub New(ByVal tag As String)

[JScript] public function HtmlControl(tag : String);

Description

Initializes a new instance of the **System.Web.UI.HtmlControls.HtmlControl** class using the specified tag.

This constructor is used to create and initialize a new instance of the **System.Web.UI.HtmlControls.HtmlControl** class using the specified tag. A string that specifies the tag name of the control.

Attributes

TrackViewState

[C#] public AttributeCollection Attributes {get;}

[C++] public: __property AttributeCollection* get_Attributes();

[VB] Public ReadOnly Property Attributes As AttributeCollection

[JScript] public function get Attributes() : AttributeCollection;

Description

Gets a collection of all attribute name and value pairs expressed on a server control tag within the .aspx file.

Use this property to programmatically access the attributes of the HTML server control. All Html server controls store their attributes in the **System.Web.UI.Control.ViewState** .

ChildControlsCreated

ClientID

Context

Controls

Disabled

TrackViewState

Description

Gets or sets a value indicating whether the HTML server control is disabled.

On the browser, a disabled element or control is read-only, with the following added restrictions: its value is not submitted with the form, the element or control cannot receive focus, and the element or control is skipped when navigating the document by tabbing.

EnableViewState

Events

HasChildViewState

ID

IsTrackingViewState

NamingContainer

Page

Parent

Site

Style

TrackViewState

Description

Gets a collection of all cascading style sheet (CSS) properties applied to a specified HTML server control in the .aspx file.

Use this property to programmatically access the style properties of the HTML server control.

TagName

TrackViewState

```
[C#] public virtual string TagName {get;}
[C++] public: __property virtual String* get_TagName();
[VB] Overridable Public ReadOnly Property TagName As String
[JScript] public function get TagName() : String;
```

Description

Gets the element name of a tag that contains a **runat=server** attribute and value pair.

Use this property to programmatically determine the element name of the HTML server control.

TemplateSourceDirectory

UniqueID

ViewState

ViewStateIgnoresCase

TrackViewState

Description

Visible

CreateControlCollection

[C#] protected override ControlCollection CreateControlCollection();

[C++] protected: ControlCollection* CreateControlCollection();

[VB] Overrides Protected Function CreateControlCollection() As ControlCollection

[JScript] protected override function CreateControlCollection() : ControlCollection;

Render

[C#] protected override void Render(HtmlTextWriter writer);

[C++] protected: void Render(HtmlTextWriter* writer);

[VB] Overrides Protected Sub Render(ByVal writer As HtmlTextWriter)

[JScript] protected override function Render(writer : HtmlTextWriter);

Description

RenderAttributes

[C#] protected virtual void RenderAttributes(HtmlTextWriter writer);

[C++] protected: virtual void RenderAttributes(HtmlTextWriter* writer);

[VB] Overridable Protected Sub RenderAttributes(ByVal writer As HtmlTextWriter)

[JScript] protected function RenderAttributes(writer : HtmlTextWriter);

Description

RenderBeginTag

[C#] protected virtual void RenderBeginTag(HtmlTextWriter writer);

[C++] protected: virtual void RenderBeginTag(HtmlTextWriter* writer);

[VB] Overridable Protected Sub RenderBeginTag(ByVal writer As HtmlTextWriter)

[JScript] protected function RenderBeginTag(writer : HtmlTextWriter);

Description

IAttributeAccessor.GetAttribute

[C#] string IAttributeAccessor.GetAttribute(string name);

[C++] String* IAttributeAccessor::GetAttribute(String* name);

[VB] Function GetAttribute(ByVal name As String) As String Implements

IAttributeAccessor.GetAttribute

[JScript] function IAttributeAccessor.GetAttribute(name : String) : String;

IAttributeAccessor.SetAttribute

[C#] void IAttributeAccessor.SetAttribute(string name, string value);

[C++] void IAttributeAccessor::SetAttribute(String* name, String* value);

[VB] Sub SetAttribute(ByVal name As String, ByVal value As String) Implements IAttributeAccessor.SetAttribute

[JScript] function IAttributeAccessor.SetAttribute(name : String, value : String);

HtmlForm class (System.Web.UI.HtmlControls)

TrackViewState

Description

Provides programmatic access to the HTML

Top of Form

element on the server.

The **System.Web.UI.HtmlControls.HtmlForm** control is used as a container for server controls on a Web page. All server controls that post back to the server must be placed between the opening and closing tags of an **System.Web.UI.HtmlControls.HtmlForm** control.

HtmlForm

Example Syntax:

TrackViewState

```
[C#] public HtmlForm();
[C++] public: HtmlForm();
[VB] Public Sub New()
[JScript] public function HtmlForm();
```

Description

Initializes a new instance of the **System.Web.UI.HtmlControls.HtmlForm** class.

Use this constructor to create and initialize a new instance of the **System.Web.UI.HtmlControls.HtmlForm** class.

Attributes

ChildControlsCreated

ClientID

Context

Controls

Disabled

EnableViewState

Enctype

TrackViewState

Description

Gets or sets the encoding type browsers use when posting the form's data to the server.

Use this property to specify the encoding type browsers use to post data back to the server.

Events

HasChildViewState

ID

InnerHtml

InnerText

IsTrackingViewState

Method

TrackViewState

Description

Gets or sets a value that indicates how a browser posts form data to the server for processing.

Use this property to specify how the browser sends form data to the server for processing. The two common methods supported by all browsers are **GET** and **POST** .

Name

TrackViewState

```
[C#] public virtual string Name {get; set;}
[C++] public: __property virtual String* get_Name();public: __property virtual void set_Name(String*);
[VB] Overridable Public Property Name As String
```

[JScript] public function get Name() : String;public function set Name(String);

Description

Gets the identifier name for the **System.Web.UI.HtmlControls.HtmlForm** control.

Use this property to identify a specific **System.Web.UI.HtmlControls.HtmlForm** control.

NamingContainer

Page

Parent

Site

Style

TagName

Target

TrackViewState

Description

Gets or sets the frame or window to render the results of information posted to the server.

Use this property to display the results of information posted to the server in another browser window or frame.

TemplateSourceDirectory

UniqueID

ViewState

ViewStateIgnoresCase

Visible

OnInit

[C#] protected override void OnInit(EventArgs e);

[C++] protected: void OnInit(EventArgs* e);

[VB] Overrides Protected Sub OnInit(ByVal e As EventArgs)

[JScript] protected override function OnInit(e : EventArgs);

Description

Call RegisterViewStateHandler().

Render

[C#] protected override void Render(HtmlTextWriter output);

[C++] protected: void Render(HtmlTextWriter* output);

[VB] Overrides Protected Sub Render(ByVal output As HtmlTextWriter)

[JScript] protected override function Render(output : HtmlTextWriter);

Description

RenderAttributes

[C#] protected override void RenderAttributes(HtmlTextWriter writer);

[C++] protected: void RenderAttributes(HtmlTextWriter* writer);

[VB] Overrides Protected Sub RenderAttributes(ByVal writer As

HtmlTextWriter)

[JScript] protected override function RenderAttributes(writer : HtmlTextWriter);

Description

RenderChildren

[C#] protected override void RenderChildren(HtmlTextWriter writer);

[C++] protected: void RenderChildren(HtmlTextWriter* writer);

[VB] Overrides Protected Sub RenderChildren(ByVal writer As HtmlTextWriter)

[JScript] protected override function RenderChildren(writer : HtmlTextWriter);

Description

HtmlGenericControl class (System.Web.UI.HtmlControls)

TrackViewState

Description

Defines the methods, properties, and events for all HTML server control tags not represented by a specific .NET Framework class.

Use this class to represent an HTML server control tag not directly represented by a .NET Framework class, such as ,

,

, and .

HtmlGenericControl

Example Syntax:

TrackViewState

[C#] public HtmlGenericControl();
[C++] public: HtmlGenericControl();
[VB] Public Sub New()
[JScript] public function HtmlGenericControl(); Initializes a new instance of the **System.Web.UI.HtmlControls.HtmlGenericControl** class.

Description

Initializes a new instance of the **System.Web.UI.HtmlControls.HtmlGenericControl** class with default values.

The following table shows initial property values for an instance of **System.Web.UI.HtmlControls.HtmlGenericControl**.

HtmlGenericControl

Example Syntax:

TrackViewState

[C#] public HtmlGenericControl(string tag);
[C++] public: HtmlGenericControl(String* tag);
[VB] Public Sub New(ByVal tag As String)
[JScript] public function HtmlGenericControl(tag : String);

Description

Initializes a new instance of the **System.Web.UI.HtmlControls.HtmlGenericControl** class with the specified tag.

The following table shows initial property values for an instance of **System.Web.UI.HtmlControls.HtmlGenericControl** . The name of the element for which the instance of this class is created.

Attributes

ChildControlsCreated

ClientID

Context

Controls

Disabled

EnableViewState

Events

HasChildViewState

ID

InnerHtml

InnerText

IsTrackingViewState

NamingContainer

Page

Parent

Site

Style

TagName

TrackViewState

Description

Gets or sets the tag name of an element that contains a **runat= "server"** attribute.

Use this property to dynamically change the tag name of a generic control on the Web page.

TemplateSourceDirectory

UniqueID

ViewState

ViewStateIgnoresCase

Visible

HtmlImage class (System.Web.UI.HtmlControls)

TrackViewState

Description

Provides programmatic access for the HTML 🖼 element on the server.

Use this control to display an image on a Web page. The **System.Web.UI.HtmlControls.HtmlImage** control can be programmatically manipulated to change the image displayed, the image size, and the alignment of the image relative to other page elements.

HtmlImage

Example Syntax:

TrackViewState

[C#] public HtmlImage();
[C++] public: HtmlImage();
[VB] Public Sub New()
[JScript] public function HtmlImage();

Description

Initializes a new instance of the **System.Web.UI.HtmlControls.HtmlImage** class.

Use this constructor to create and initialize a new instance of the **System.Web.UI.HtmlControls.HtmlImage** class.

Align

TrackViewState

[C#] public string Align {get; set;}
[C++] public: __property String* get_Align();public: __property void set_Align(String*);
[VB] Public Property Align As String
[JScript] public function get Align() : String;public function set Align(String);

Description

Gets or sets the alignment of the image relative to other Web page elements.

Use this property to specify the alignment of the image with respect to other elements on the Web page.

Alt

TrackViewState

[C#] public string Alt {get; set;}

[C++] public: __property String* get_Alt();public: __property void set_Alt(String*);

[VB] Public Property Alt As String

[JScript] public function get Alt() : String;public function set Alt(String);

Description

Gets or sets the alternative caption the browser displays if an image is unavailable or currently downloading and not yet finished.

Use this property to specify the caption displayed when the image specified by the **System.Web.UI.HtmlControls.HtmlImage.Src** property is unavailable. On newer browsers, this caption also appears as a ToolTip.

Attributes

Border

TrackViewState

Description

Gets or sets the width of a frame for an image.

Use this property to create a frame with the specified width (in pixels) for an image.

ChildControlsCreated

ClientID

Context

Controls

Disabled

EnableViewState

Events

HasChildViewState

Height

TrackViewState

Description

Gets or sets the height of the image.

The **System.Web.UI.HtmlControls.HtmlImage.Height** and **System.Web.UI.HtmlControls.HtmlImage.Width** properties can be used two ways. You can use the **System.Web.UI.HtmlControls.HtmlImage.Height** and **System.Web.UI.HtmlControls.HtmlImage.Width** properties to send image size specifications to the browser. This displays the Web page faster because the browser does not need to recalculate the positions of elements on the page when the image loads.

ID

IsTrackingViewState

NamingContainer

Page

Parent

Site

Src

TrackViewState

Description

Gets or sets the source of the image file to display.

Use this property to specify the path to the image file to display. If the image file is in the same directory as the Web page source file that uses it, you can just specify the file name. Otherwise, you must also include the path to the file. The path can be absolute or relative to the directory that contains the Web page source file.

Style

TagName

TemplateSourceDirectory

UniqueID

ViewState

ViewStateIgnoresCase

Visible

Width

TrackViewState

Description

Gets or sets the width of the image.

The **System.Web.UI.HtmlControls.HtmlImage.Height** and **System.Web.UI.HtmlControls.HtmlImage.Width** properties can be used two ways. You can use the **System.Web.UI.HtmlControls.HtmlImage.Height** and **System.Web.UI.HtmlControls.HtmlImage.Width** properties to send the image size specifications to the browser. This displays the Web page faster because the browser does not need to recalculate the positions of elements on the page when the image loads.

RenderAttributes

```
[C#] protected override void RenderAttributes(HtmlTextWriter writer);
[C++] protected: void RenderAttributes(HtmlTextWriter* writer);
[VB] Overrides Protected Sub RenderAttributes(ByVal writer As HtmlTextWriter)
[JScript] protected override function RenderAttributes(writer : HtmlTextWriter);
```

Description

HtmlInputButton class (System.Web.UI.HtmlControls)

TrackViewState

Description

Allows programmatic access to the HTML , Submit, and Reset elements on the server.

Use this class to create button controls on a Web page.

HtmlInputButton

Example Syntax:

TrackViewState

[C#] public HtmlInputButton();
[C++] public: HtmlInputButton();
[VB] Public Sub New()
[JScript] public function HtmlInputButton(); Initializes a new instance of an **System.Web.UI.HtmlControls.HtmlInputButton** class.

Description

Initializes a new instance of an **System.Web.UI.HtmlControls.HtmlInputButton** class using default values.

The following table shows the initial property value for an instance of **System.Web.UI.HtmlControls.HtmlInputButton** .

HtmlInputButton

Example Syntax:

TrackViewState

[C#] public HtmlInputButton(string type);
[C++] public: HtmlInputButton(String* type);
[VB] Public Sub New(ByVal type As String)

[JScript] public function HtmlInputButton(type : String);

Description

Initializes a new instance of an **System.Web.UI.HtmlControls.HtmlInputButton** class using the specified button type.

The following table shows the initial property value for an instance of **System.Web.UI.HtmlControls.HtmlInputButton** . The input button type.

Attributes

CausesValidation

TrackViewState

Description

Gets or sets a value indicating whether validation is performed when the **System.Web.UI.HtmlControls.HtmlInputButton** control is clicked.

By default, page validation is performed when an **System.Web.UI.HtmlControls.HtmlInputButton** control is clicked. Page validation determines whether the input controls associated with a validation control on the page all pass the validation rules specified by the validation control.

ChildControlsCreated

ClientID

Context

Controls

Disabled

EnableViewState

Events

HasChildViewState

ID

IsTrackingViewState

Name

NamingContainer

Page

Parent

Site

Style

TagName

TemplateSourceDirectory

Type

UniqueID

Value

ViewState

ViewStateIgnoresCase

Visible

TrackViewState

Description

Occurs when an **System.Web.UI.HtmlControls.HtmlInputButton** control is clicked on the Web page.

This event is raised when an **System.Web.UI.HtmlControls.HtmlInputButton** control is clicked.

OnServerClick

[C#] protected virtual void OnServerClick(EventArgs e);
[C++] protected: virtual void OnServerClick(EventArgs* e);
[VB] Overridable Protected Sub OnServerClick(ByVal e As EventArgs)
[JScript] protected function OnServerClick(e : EventArgs);

Description

Raises the **System.Web.UI.HtmlControls.HtmlInputButton.ServerClick** event. This allows you to handle the event directly.

The **System.Web.UI.HtmlControls.HtmlInputButton.ServerClick** event is raised when an **System.Web.UI.HtmlControls.HtmlInputButton** control is clicked. A **System.EventArgs** that contains the event data.

RenderAttributes

[C#] protected override void RenderAttributes(HtmlTextWriter writer);
[C++] protected: void RenderAttributes(HtmlTextWriter* writer);
[VB] Overrides Protected Sub RenderAttributes(ByVal writer As HtmlTextWriter)
[JScript] protected override function RenderAttributes(writer : HtmlTextWriter);

Description

IPostBackEventHandler.RaisePostBackEvent

[C#] void IPostBackEventHandler.RaisePostBackEvent(string eventArgument);

[C++] void IPostBackEventHandler::RaisePostBackEvent(String* eventArgument);

[VB] Sub RaisePostBackEvent(ByVal eventArgument As String) Implements IPostBackEventHandler.RaisePostBackEvent

[JScript] function IPostBackEventHandler.RaisePostBackEvent(eventArgument : String);

HtmlInputCheckBox class (System.Web.UI.HtmlControls)

TrackViewState

Description

Allows programmatic access to the HTML ┌ element on the server.

Use the **System.Web.UI.HtmlControls.HtmlInputCheckBox** control to allow the user to select a **true** or **false** state.

HtmlInputCheckBox

Example Syntax:

TrackViewState

[C#] public HtmlInputCheckBox();

[C++] public: HtmlInputCheckBox();

[VB] Public Sub New()

[JScript] public function HtmlInputCheckBox();

Description

Initializes a new instance of an **System.Web.UI.HtmlControls.HtmlInputCheckBox** class.

Use this constructor to create and initialize a new instance of the **System.Web.UI.HtmlControls.HtmlInputCheckBox** class.

Attributes

Checked

TrackViewState

Description

Gets or sets a value indicating whether the **System.Web.UI.HtmlControls.HtmlInputCheckBox** is checked.

Use this property to determine whether the **System.Web.UI.HtmlControls.HtmlInputCheckBox** control is checked. This property can also be used to programmatically set the state of the **System.Web.UI.HtmlControls.HtmlInputCheckBox** control.

ChildControlsCreated

ClientID

Context

Controls

Disabled

EnableViewState

Events

HasChildViewState

ID

IsTrackingViewState

Name

NamingContainer

Page

Parent

Site

Style

TagName

TemplateSourceDirectory

Type

UniqueID

Value

ViewState

ViewStateIgnoresCase

Visible

TrackViewState

Description

Occurs when the Web page is submitted to the server and the **System.Web.UI.HtmlControls.HtmlInputCheckBox** control changes state from the previous post.

This event is raised when the Web page is submitted to the server and the state of the **System.Web.UI.HtmlControls.HtmlInputCheckBox** control changes state from the previous post.

OnPreRender

```
[C#] protected override void OnPreRender(EventArgs e);
[C++] protected: void OnPreRender(EventArgs* e);
[VB] Overrides Protected Sub OnPreRender(ByVal e As EventArgs)
[JScript] protected override function OnPreRender(e : EventArgs);
```

Description

OnServerChange

```
[C#] protected virtual void OnServerChange(EventArgs e);
[C++] protected: virtual void OnServerChange(EventArgs* e);
[VB] Overridable Protected Sub OnServerChange(ByVal e As EventArgs)
[JScript] protected function OnServerChange(e : EventArgs);
```

Description

Raises the **System.Web.UI.HtmlControls.HtmlInputCheckBox.ServerChange** event. This method allows you to handle the event directly.

This event is raised when the Web page is submitted to the server and the state of the **System.Web.UI.HtmlControls.HtmlInputCheckBox** control changes state from the previous post. This method allows you to override the base implementation and provide a custom handler for the event. A **System.EventArgs** that contains event information.

IPostBackDataHandler.LoadPostData

[C#] bool IPostBackDataHandler.LoadPostData(string postDataKey, NameValueCollection postCollection);

[C++] bool IPostBackDataHandler::LoadPostData(String* postDataKey, NameValueCollection* postCollection);

[VB] Function LoadPostData(ByVal postDataKey As String, ByVal postCollection As NameValueCollection) As Boolean Implements IPostBackDataHandler.LoadPostData

[JScript] function IPostBackDataHandler.LoadPostData(postDataKey : String, postCollection : NameValueCollection) : Boolean;

IPostBackDataHandler.RaisePostDataChangedEvent

[C#] void IPostBackDataHandler.RaisePostDataChangedEvent();

[C++] void IPostBackDataHandler::RaisePostDataChangedEvent();

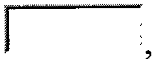
[VB] Sub RaisePostDataChangedEvent() Implements IPostBackDataHandler.RaisePostDataChangedEvent

[JScript] function IPostBackDataHandler.RaisePostDataChangedEvent();

HtmlInputControl class (System.Web.UI.HtmlControls)

TrackViewState

Description

Serves as the abstract base class that defines the methods, properties, and events common to all HTML input controls, such as the ,

, and elements.

The **System.Web.UI.HtmlControls.HtmlInputControl** class cannot be instantiated directly. Instead, this class is inherited by other classes, such as the **System.Web.UI.HtmlControls.HtmlInputText** , **System.Web.UI.HtmlControls.HtmlInputButton** , **System.Web.UI.HtmlControls.HtmlInputRadioButton** , **System.Web.UI.HtmlControls.HtmlInputCheckBox** , **System.Web.UI.HtmlControls.HtmlInputImage** , **System.Web.UI.HtmlControls.HtmlInputHidden** , and **System.Web.UI.HtmlControls.HtmlInputFile** classes, to provide common basic functionality.

HtmlInputControl

Example Syntax:

TrackViewState

```
[C#] public HtmlInputControl(string type);
[C++] public: HtmlInputControl(String* type);
[VB] Public Sub New(ByVal type As String)
[JScript] public function HtmlInputControl(type : String);
```

Description

Initializes a new instance of the **System.Web.UI.HtmlControls.HtmlInputControl** class.

The following table shows initial property values for an instance of **System.Web.UI.HtmlControls.HtmlInputControl** . The type of input control.

Attributes

ChildControlsCreated

ClientID

Context

Controls

Disabled

EnableViewState

Events

HasChildViewState

ID

IsTrackingViewState

Name

TrackViewState

Description

Gets or sets the unique identifier name for the **System.Web.UI.HtmlControls.HtmlInputControl** .

Use the **System.Web.UI.HtmlControls.HtmlInputControl.Name** property to determine the unique identifier name for an **System.Web.UI.HtmlControls.HtmlInputControl** . In this implementation, the **get** accessor returns the value of the **System.Web.UI.Control.UniqueID** property. However, the **set** accessor does not assign a value to this property.

NamingContainer

Page

Parent

Site

Style

TagName

TemplateSourceDirectory

Type

TrackViewState

Description

Gets the type of an **System.Web.UI.HtmlControls.HtmlInputControl** .

Use this property get the type of an **System.Web.UI.HtmlControls.HtmlInputControl** .

UniqueID

Value

TrackViewState

Description

Gets or sets the contents of an **System.Web.UI.HtmlControls.HtmlInputControl** .

Use this property to determine the contents of an **System.Web.UI.HtmlControls.HtmlInputControl** . This property can also be used to programmatically set the contents of an **System.Web.UI.HtmlControls.HtmlInputControl** .

ViewState

ViewStateIgnoresCase

Visible

RenderAttributes

[C#] protected override void RenderAttributes(HtmlTextWriter writer);
[C++] protected: void RenderAttributes(HtmlTextWriter* writer);
[VB] Overrides Protected Sub RenderAttributes(ByVal writer As HtmlTextWriter)
[JScript] protected override function RenderAttributes(writer : HtmlTextWriter);

Description

HtmlInputFile class (System.Web.UI.HtmlControls)

TrackViewState

Description

Allows programmatic access to the HTML element on the server.

Use the **System.Web.UI.HtmlControls.HtmlInputFile** server control to handle uploading binary or text files from a browser client to the server. File upload works with Microsoft Internet Explorer version 3.02 or later.

HtmlInputFile

Example Syntax:

TrackViewState

[C#] public HtmlInputFile();
[C++] public: HtmlInputFile();
[VB] Public Sub New()
[JScript] public function HtmlInputFile();

Description

Initializes a new instance of the **System.Web.UI.HtmlControls.HtmlInputFile** class.

Use this constructor to create and initialize a new instance of the **System.Web.UI.HtmlControls.HtmlInputFile** class.

Accept

TrackViewState

[C#] public string Accept {get; set;}
[C++] public: __property String* get_Accept();public: __property void set_Accept(String*);
[VB] Public Property Accept As String
[JScript] public function get Accept() : String;public function set Accept(String);

Description

Gets or sets a comma-separated list of MIME encodings used to constrain the file types the user can select.

Use this property to specify the file type that can be uploaded to the server. For example, to restrict the selection to images, set this property to "image/*".

Attributes

ChildControlsCreated

ClientID

Context

Controls

Disabled

EnableViewState

Events

HasChildViewState

ID

IsTrackingViewState

MaxLength

TrackViewState

Description

Gets or sets the maximum length of the file path for the file to upload from the client machine.

Use this property to specify a limit for the number of characters that can be entered for the path to the file to upload.

Name

NamingContainer

Page

Parent

PostedFile

TrackViewState

Description

Gets access to the uploaded file specified by a client.

Browser security restrictions prevent this value from being maintained across multiple requests.

Site

Size

TrackViewState

Description

Gets or sets the width of the text box in which the file path is entered.

Use this property to specify the width of the text box in which to enter the file path.

Style

TagName

TemplateSourceDirectory

Type

UniqueID

Value

ViewState

ViewStateIgnoresCase

Visible

IPostBackDataHandler.LoadPostData

[C#] bool IPostBackDataHandler.LoadPostData(string postDataKey, NameValueCollection postCollection);

[C++] bool IPostBackDataHandler::LoadPostData(String* postDataKey, NameValueCollection* postCollection);

[VB] Function LoadPostData(ByVal postDataKey As String, ByVal postCollection As NameValueCollection) As Boolean Implements IPostBackDataHandler.LoadPostData

[JScript] function IPostBackDataHandler.LoadPostData(postDataKey : String, postCollection : NameValueCollection) : Boolean;

IPostBackDataHandler.RaisePostDataChangedEvent

[C#] void IPostBackDataHandler.RaisePostDataChangedEvent();

[C++] void IPostBackDataHandler::RaisePostDataChangedEvent();

[VB] Sub RaisePostDataChangedEvent() Implements IPostBackDataHandler.RaisePostDataChangedEvent

[JScript] function IPostBackDataHandler.RaisePostDataChangedEvent();

HtmlInputHidden class (System.Web.UI.HtmlControls)

TrackViewState

Description

Allows programmatic access to the HTML element on the server.

You can use the **System.Web.UI.HtmlControls.HtmlInputHidden** control to embed non-visible information within a

Top of Form

element. This information is sent when the Web page is posted back to the server.

HtmlInputHidden

Example Syntax:

TrackViewState

[C#] public HtmlInputHidden();

[C++] public: HtmlInputHidden();

[VB] Public Sub New()

[JScript] public function HtmlInputHidden();

Description

Initializes a new instance of the **System.Web.UI.HtmlControls.HtmlInputHidden** class.

Attributes

ChildControlsCreated

ClientID

Context

Controls

Disabled

EnableViewState

Events

HasChildViewState

ID

IsTrackingViewState

Name

NamingContainer

Page

Parent

Site

Style

TagName

TemplateSourceDirectory

Type

UniqueID

Value

ViewState

ViewStateIgnoresCase

Visible

TrackViewState

Description

Occurs when the **System.Web.UI.HtmlControls.HtmlInputControl.Value** property is changed on the server.

The **System.Web.UI.HtmlControls.HtmlInputHidden.ServerChange** event is raised when the **System.Web.UI.HtmlControls.HtmlInputControl.Value** property is changed on the server.

OnPreRender

```
[C#] protected override void OnPreRender(EventArgs e);
[C++] protected: void OnPreRender(EventArgs* e);
[VB] Overrides Protected Sub OnPreRender(ByVal e As EventArgs)
[JScript] protected override function OnPreRender(e : EventArgs);
```

Description

OnServerChange

```
[C#] protected virtual void OnServerChange(EventArgs e);
[C++] protected: virtual void OnServerChange(EventArgs* e);
[VB] Overridable Protected Sub OnServerChange(ByVal e As EventArgs)
[JScript] protected function OnServerChange(e : EventArgs);
```

Description

Raises the **System.Web.UI.HtmlControls.HtmlInputHidden.ServerChange** event.

The **System.Web.UI.HtmlControls.HtmlInputHidden.ServerChange** event is raised when the

System.Web.UI.HtmlControls.HtmlInputControl.Value property is changed on the server. A **System.EventArgs** that contains event data.

IPostBackDataHandler.LoadPostData

```
[C#] bool IPostBackDataHandler.LoadPostData(string postDataKey, NameValueCollection postCollection);
[C++] bool IPostBackDataHandler::LoadPostData(String* postDataKey, NameValueCollection* postCollection);
[VB] Function LoadPostData(ByVal postDataKey As String, ByVal postCollection As NameValueCollection) As Boolean Implements IPostBackDataHandler.LoadPostData
[JScript] function IPostBackDataHandler.LoadPostData(postDataKey : String, postCollection : NameValueCollection) : Boolean;
```

IPostBackDataHandler.RaisePostDataChangedEvent

```
[C#] void IPostBackDataHandler.RaisePostDataChangedEvent();
[C++] void IPostBackDataHandler::RaisePostDataChangedEvent();
[VB] Sub RaisePostDataChangedEvent() Implements IPostBackDataHandler.RaisePostDataChangedEvent
[JScript] function IPostBackDataHandler.RaisePostDataChangedEvent();
```

HtmlInputImage class (System.Web.UI.HtmlControls)

TrackViewState

Description

Allows programmatic access to the HTML [illegible] element on the server.

Use the **System.Web.UI.HtmlControls.HtmlInputImage** control to create a button that displays an image. You can programmatically control the action associated with the **System.Web.UI.HtmlControls.HtmlInputImage** control by providing an event handler for the **System.Web.UI.HtmlControls.HtmlInputImage.ServerClick** event.

HtmlInputImage

Example Syntax:

TrackViewState

[C#] public HtmlInputImage();
[C++] public: HtmlInputImage();
[VB] Public Sub New()
[JScript] public function HtmlInputImage();

Description

Initializes a new instance of the **System.Web.UI.HtmlControls.HtmlInputImage** class.

Align

TrackViewState

[C#] public string Align {get; set;}
[C++] public: __property String* get_Align();public: __property void set_Align(String*);

[VB] Public Property Align As String

[JScript] public function get Align() : String;public function set Align(String);

Description

Gets or sets the alignment of the **System.Web.UI.HtmlControls.HtmlInputImage** control in relation to other elements on the Web page.

Use the **System.Web.UI.HtmlControls.HtmlInputImage.Align** property to specify the alignment of the **System.Web.UI.HtmlControls.HtmlInputImage** control in relation to the other elements on the Web page. The following table lists the possible values for this property.

Alt

TrackViewState

[C#] public string Alt {get; set;}

[C++] public: __property String* get_Alt();public: __property void set_Alt(String*);

[VB] Public Property Alt As String

[JScript] public function get Alt() : String;public function set Alt(String);

Description

Gets or sets the alternative text that the browser displays if the image is unavailable or has not been downloaded.

Use the **System.Web.UI.HtmlControls.HtmlInputImage.Alt** property to specify the text to display when the specified image is not available or has not been downloaded. You can also use this property to programmatically determine the specified alternative text.

Attributes

Border

TrackViewState

Description

Gets or sets the border width for the **System.Web.UI.HtmlControls.HtmlInputImage** control.

Use the **System.Web.UI.HtmlControls.HtmlInputImage.Border** property to specify the border width for the **System.Web.UI.HtmlControls.HtmlInputImage** control.

CausesValidation

TrackViewState

[C#] public bool CausesValidation {get; set;}
[C++] public: __property bool get_CausesValidation();public: __property void set_CausesValidation(bool);
[VB] Public Property CausesValidation As Boolean
[JScript] public function get CausesValidation() : Boolean;public function set CausesValidation(Boolean);

Description

Gets or sets a value indicating whether validation is performed when the **System.Web.UI.HtmlControls.HtmlInputImage** control is clicked.

By default, page validation is performed when an **System.Web.UI.HtmlControls.HtmlInputImage** control is clicked. Page validation determines whether the input controls associated with a validation control on the page all pass the validation rules specified by the validation control.

ChildControlsCreated

ClientID

Context

Controls

Disabled

EnableViewState

Events

HasChildViewState

ID

IsTrackingViewState

Name

NamingContainer

Page

Parent

Site

Src

TrackViewState

Description

Gets or sets the location of the image file.

Use the **System.Web.UI.HtmlControls.HtmlInputImage.Src** property to specify the location of the image to display in the **System.Web.UI.HtmlControls.HtmlInputImage** control. If the image is not available, the text specified in the **System.Web.UI.HtmlControls.HtmlInputImage.Alt** property is displayed.

Style

TagName

TemplateSourceDirectory

Type

UniqueID

Value

ViewState

ViewStateIgnoresCase

Visible

TrackViewState

Description

Occurs on the server when the user clicks an **System.Web.UI.HtmlControls.HtmlInputImage** control.

The **System.Web.UI.HtmlControls.HtmlInputImage.ServerClick** event is raised when the user clicks an **System.Web.UI.HtmlControls.HtmlInputImage** control.

OnPreRender

[C#] protected override void OnPreRender(EventArgs e);
[C++] protected: void OnPreRender(EventArgs* e);
[VB] Overrides Protected Sub OnPreRender(ByVal e As EventArgs)
[JScript] protected override function OnPreRender(e : EventArgs);

Description

OnServerClick

[C#] protected virtual void OnServerClick(ImageClickEventArgs e);
[C++] protected: virtual void OnServerClick(ImageClickEventArgs* e);
[VB] Overridable Protected Sub OnServerClick(ByVal e As ImageClickEventArgs)
[JScript] protected function OnServerClick(e : ImageClickEventArgs);

Description

Raises the **System.Web.UI.HtmlControls.HtmlInputImage.ServerClick** event.

The **System.Web.UI.HtmlControls.HtmlInputImage.ServerClick** event is raised when the user clicks an

System.Web.UI.HtmlControls.HtmlInputImage control. A **System.Web.UI.ImageClickEventArgs** that contains event data.

RenderAttributes

[C#] protected override void RenderAttributes(HtmlTextWriter writer);

[C++] protected: void RenderAttributes(HtmlTextWriter* writer);

[VB] Overrides Protected Sub RenderAttributes(ByVal writer As HtmlTextWriter)

[JScript] protected override function RenderAttributes(writer : HtmlTextWriter);

Description

IPostBackDataHandler.LoadPostData

[C#] bool IPostBackDataHandler.LoadPostData(string postDataKey, NameValueCollection postCollection);

[C++] bool IPostBackDataHandler::LoadPostData(String* postDataKey, NameValueCollection* postCollection);

[VB] Function LoadPostData(ByVal postDataKey As String, ByVal postCollection As NameValueCollection) As Boolean Implements IPostBackDataHandler.LoadPostData

[JScript] function IPostBackDataHandler.LoadPostData(postDataKey : String, postCollection : NameValueCollection) : Boolean;

IPostBackDataHandler.RaisePostDataChangedEvent

[C#] void IPostBackDataHandler.RaisePostDataChangedEvent();

[C++] void IPostBackDataHandler::RaisePostDataChangedEvent();

[VB] Sub RaisePostDataChangedEvent() Implements IPostBackDataHandler.RaisePostDataChangedEvent

[JScript] function IPostBackDataHandler.RaisePostDataChangedEvent();

IPostBackEventHandler.RaisePostBackEvent

[C#] void IPostBackEventHandler.RaisePostBackEvent(string eventArgument);

[C++] void IPostBackEventHandler::RaisePostBackEvent(String* eventArgument);

[VB] Sub RaisePostBackEvent(ByVal eventArgument As String) Implements IPostBackEventHandler.RaisePostBackEvent

[JScript] function IPostBackEventHandler.RaisePostBackEvent(eventArgument : String);

HtmlInputRadioButton class (System.Web.UI.HtmlControls)

TrackViewState

Description

Allows programmatic access to the HTML element on the server.

Use the **System.Web.UI.HtmlControls.HtmlInputRadioButton** control to create a radio button on a Web page. The **System.Web.UI.HtmlControls.HtmlInputRadioButton** control does not provide built-in functionality to display a caption for the radio button. To create a caption, use literal text in the Web page at the desired location. This allows you to control where the caption is displayed relative to the radio button. For example, if you want to display the caption on the right side of the radio button, declare an **System.Web.UI.HtmlControls.HtmlInputRadioButton** control followed by the caption text.

HtmlInputRadioButton

Example Syntax:

TrackViewState

[C#] public HtmlInputRadioButton();

[C++] public: HtmlInputRadioButton();

[VB] Public Sub New()

[JScript] public function HtmlInputRadioButton();

Description

Initializes a new instance of the **System.Web.UI.HtmlControls.HtmlInputRadioButton** class.

Use this constructor to create and initialize a new instance of the **System.Web.UI.HtmlControls.HtmlInputRadioButton** class.

Attributes

Checked

TrackViewState

Description

Gets or sets a value indicating whether the **System.Web.UI.HtmlControls.HtmlInputRadioButton** control is selected.

Use the **System.Web.UI.HtmlControls.HtmlInputRadioButton.Checked** property to determine whether the **System.Web.UI.HtmlControls.HtmlInputRadioButton** control is selected. You can also use this property to programmatically specify whether the control is selected. If you have a group of **System.Web.UI.HtmlControls.HtmlInputRadioButton** controls, you need to iterate through each control and test the **System.Web.UI.HtmlControls.HtmlInputRadioButton.Checked** property of each control individually.

ChildControlsCreated

ClientID

Context

Controls

Disabled

EnableViewState

Events

HasChildViewState

ID

IsTrackingViewState

Name

TrackViewState

Description

Gets or sets the name of the group that the current instance of the **System.Web.UI.HtmlControls.HtmlInputRadioButton** class is associated with.

Group multiple **System.Web.UI.HtmlControls.HtmlInputRadioButton** controls together by specifying a common value for the **System.Web.UI.HtmlControls.HtmlInputControl.Name** property of each radio button you want to include in the group. When you group **System.Web.UI.HtmlControls.HtmlInputRadioButton** controls together, only one radio button in the group can be selected at a time. The **System.Web.UI.HtmlControls.HtmlInputRadioButton.Checked** property of the selected control is set to **true** , while the same property is set to **false** for all other check boxes in the group.

NamingContainer

Page

Parent

Site

Style

TagName

TemplateSourceDirectory

Type

UniqueID

Value

TrackViewState

Description

Gets or sets the quantity associated with the **System.Web.UI.HtmlControls.HtmlInputRadioButton** control.

Use the **System.Web.UI.HtmlControls.HtmlInputRadioButton.Value** property to associate a quantity with the **System.Web.UI.HtmlControls.HtmlInputRadioButton** control. The quantity is not restricted to a numeric value and can be any valid string. This is useful when you have multiple radio buttons and need perform a calculation based on the selection. For example, you can have radio buttons that represent different shipping methods. You can store the shipping cost in the **System.Web.UI.HtmlControls.HtmlInputRadioButton.Value** property. When the user selects the shipping method, you add the appropriate amount to the sales total.

ViewState

ViewStateIgnoresCase

Visible

TrackViewState

Description

Occurs when the value of the **System.Web.UI.HtmlControls.HtmlInputRadioButton.Checked** property of the **System.Web.UI.HtmlControls.HtmlInputRadioButton** control changes between posts to the server.

The **System.Web.UI.HtmlControls.HtmlInputRadioButton.ServerChange** event is raised when the **System.Web.UI.HtmlControls.HtmlInputRadioButton.Checked** property of the **System.Web.UI.HtmlControls.HtmlInputRadioButton** control changes value between posts to the server. This allows you to create a custom event handler that performs a specific set of instructions (such as data validation) when the event is raised.

OnPreRender

[C#] protected override void OnPreRender(EventArgs e);
[C++] protected: void OnPreRender(EventArgs* e);
[VB] Overrides Protected Sub OnPreRender(ByVal e As EventArgs)
[JScript] protected override function OnPreRender(e : EventArgs);

Description

OnServerChange

[C#] protected virtual void OnServerChange(EventArgs e);
[C++] protected: virtual void OnServerChange(EventArgs* e);
[VB] Overridable Protected Sub OnServerChange(ByVal e As EventArgs)
[JScript] protected function OnServerChange(e : EventArgs);

Description

Raises the **System.Web.UI.HtmlControls.HtmlInputRadioButton.ServerChange** event. This allows you to create a custom event handler when the event is raised.

The **System.Web.UI.HtmlControls.HtmlInputRadioButton.ServerChange** event is raised when the **System.Web.UI.HtmlControls.HtmlInputRadioButton.Checked** property of the **System.Web.UI.HtmlControls.HtmlInputRadioButton** control changes values between posts to the server. This allows you to create a custom event handler that performs a specific set of instructions (such as data validation)when the event is raised. A **System.EventArgs** that contains the event data.

RenderAttributes

```
[C#] protected override void RenderAttributes(HtmlTextWriter writer);
[C++] protected: void RenderAttributes(HtmlTextWriter* writer);
[VB] Overrides Protected Sub RenderAttributes(ByVal writer As HtmlTextWriter)
[JScript] protected override function RenderAttributes(writer : HtmlTextWriter);
```

Description

IPostBackDataHandler.LoadPostData

```
[C#] bool IPostBackDataHandler.LoadPostData(string postDataKey, NameValueCollection postCollection);
[C++] bool IPostBackDataHandler::LoadPostData(String* postDataKey, NameValueCollection* postCollection);
[VB] Function LoadPostData(ByVal postDataKey As String, ByVal
```

postCollection As NameValueCollection) As Boolean Implements IPostBackDataHandler.LoadPostData

[JScript] function IPostBackDataHandler.LoadPostData(postDataKey : String, postCollection : NameValueCollection) : Boolean;

IPostBackDataHandler.RaisePostDataChangedEvent

[C#] void IPostBackDataHandler.RaisePostDataChangedEvent();

[C++] void IPostBackDataHandler::RaisePostDataChangedEvent();

[VB] Sub RaisePostDataChangedEvent() Implements IPostBackDataHandler.RaisePostDataChangedEvent

[JScript] function IPostBackDataHandler.RaisePostDataChangedEvent();

HtmlInputText class (System.Web.UI.HtmlControls)

TrackViewState

Description

Allows programmatic access to the HTML and elements on the server.

Use the **System.Web.UI.HtmlControls.HtmlInputText** control to create a single line text box that allows the user to enter text or a password. Use the **System.Web.UI.HtmlControls.HtmlInputText.MaxLength** property to specify the maximum number of characters that can be entered in the text box. The **System.Web.UI.HtmlControls.HtmlInputText.Size** property allows you to specify the width of the text box.

HtmlInputText

Example Syntax:

TrackViewState

[C#] public HtmlInputText();

[C++] public: HtmlInputText();

[VB] Public Sub New()

[JScript] public function HtmlInputText(); Initializes a new instance of the **System.Web.UI.HtmlControls.HtmlInputText** class.

Description

Initializes a new instance of the **System.Web.UI.HtmlControls.HtmlInputText** class using default values.

This constructor creates a **text** type text box control.

HtmlInputText

Example Syntax:

TrackViewState

[C#] public HtmlInputText(string type);

[C++] public: HtmlInputText(String* type);

[VB] Public Sub New(ByVal type As String)

[JScript] public function HtmlInputText(type : String);

Description

Initializes a new instance of the **System.Web.UI.HtmlControls.HtmlInputText** class using the specified input control type.

This constructor allows you to create a specific type of text box control, such as **password** . Only the **password** or **text** type is currently supported. This constructor is designed to allow you to create other text box types if they become available. The type of input control.

Attributes

ChildControlsCreated

ClientID

Context

Controls

Disabled

EnableViewState

Events

HasChildViewState

ID

IsTrackingViewState

MaxLength

TrackViewState

Description

Gets or sets the maximum number of characters that can be entered in the text box.

Use the **System.Web.UI.HtmlControls.HtmlInputText.MaxLength** property to specify or determine the maximum number of characters that can be entered in the text box.

Name

NamingContainer

Page

Parent

Site

Size

TrackViewState

Description

Gets or sets the width of the text box.

Use the **System.Web.UI.HtmlControls.HtmlInputText.Size** property to specify or determine the width of the textbox, in characters.

Style

TagName

TemplateSourceDirectory

Type

UniqueID

Value

TrackViewState

Description

Gets or sets the contents of the text box.

Use the **System.Web.UI.HtmlControls.HtmlInputText.Value** property to programmatically determine the text entered by the user into the text box. You can also use this property to provide default text for the text box.

ViewState

ViewStateIgnoresCase

Visible

TrackViewState

Description

Occurs when the **System.Web.UI.HtmlControls.HtmlInputText.Value** property is changed on the server.

The **System.Web.UI.HtmlControls.HtmlInputText.ServerChange** event is raised when the **System.Web.UI.HtmlControls.HtmlInputText.Value** property is changed on the server.

OnPreRender

```
[C#] protected override void OnPreRender(EventArgs e);
[C++] protected: void OnPreRender(EventArgs* e);
[VB] Overrides Protected Sub OnPreRender(ByVal e As EventArgs)
[JScript] protected override function OnPreRender(e : EventArgs);
```

Description

OnServerChange

[C#] protected virtual void OnServerChange(EventArgs e);
[C++] protected: virtual void OnServerChange(EventArgs* e);
[VB] Overridable Protected Sub OnServerChange(ByVal e As EventArgs)
[JScript] protected function OnServerChange(e : EventArgs);

Description

Raises the **System.Web.UI.HtmlControls.HtmlInputText.ServerChange** event.

The **System.Web.UI.HtmlControls.HtmlInputText.ServerChange** event is raised when the **System.Web.UI.HtmlControls.HtmlInputText.Value** property is changed on the server. A **System.EventArgs** that contains event data.

RenderAttributes

[C#] protected override void RenderAttributes(HtmlTextWriter writer);
[C++] protected: void RenderAttributes(HtmlTextWriter* writer);
[VB] Overrides Protected Sub RenderAttributes(ByVal writer As HtmlTextWriter)
[JScript] protected override function RenderAttributes(writer : HtmlTextWriter);

Description

IPostBackDataHandler.LoadPostData

[C#] bool IPostBackDataHandler.LoadPostData(string postDataKey, NameValueCollection postCollection);

[C++] bool IPostBackDataHandler::LoadPostData(String* postDataKey, NameValueCollection* postCollection);

[VB] Function LoadPostData(ByVal postDataKey As String, ByVal postCollection As NameValueCollection) As Boolean Implements IPostBackDataHandler.LoadPostData

[JScript] function IPostBackDataHandler.LoadPostData(postDataKey : String, postCollection : NameValueCollection) : Boolean;

IPostBackDataHandler.RaisePostDataChangedEvent

[C#] void IPostBackDataHandler.RaisePostDataChangedEvent();

[C++] void IPostBackDataHandler::RaisePostDataChangedEvent();

[VB] Sub RaisePostDataChangedEvent() Implements IPostBackDataHandler.RaisePostDataChangedEvent

[JScript] function IPostBackDataHandler.RaisePostDataChangedEvent();

HtmlSelect class (System.Web.UI.HtmlControls)

TrackViewState

Description

Allows programmatic access to the HTML

System.Web.UI.WebControls

Description

The System.Web.UI.WebControls namespace is a collection of classes that allow you to create Web server controls on a Web page. Web controls run on the server and include form controls such as buttons and text boxes, as well as special purpose controls such as a calendar. This allows you to programmatically control these elements on a Web page. Web controls are more abstract than HTML controls. Their object model does not necessarily reflect HTML syntax.

AdCreatedEventArgs class (System.Web.UI.WebControls)

Description

Provides data for the **System.Web.UI.WebControls.AdRotator.AdCreated** event of the **System.Web.UI.WebControls.AdRotator** control. This class cannot be inherited.

The **System.Web.UI.WebControls.AdRotator.AdCreated** event is raised when the **System.Web.UI.WebControls.AdRotator** displays an advertisement on the page.

Constructors:

AdCreatedEventArgs

Example Syntax:

[C#] public AdCreatedEventArgs(IDictionary adProperties);

[C++] public: AdCreatedEventArgs(IDictionary* adProperties);

[VB] Public Sub New(ByVal adProperties As IDictionary)

[JScript] public function AdCreatedEventArgs(adProperties : IDictionary);

Description

Initializes a new instance of the **System.Web.UI.WebControls.AdCreatedEventArgs** class.

Use this constructor to create and initialize a new instance of the **System.Web.UI.WebControls.AdCreatedEventArgs** class. A **System.Collections.IDictionary** containing the advertisement properties from the XML file.

Properties:

AdProperties

[C#] public IDictionary AdProperties {get;}

[C++] public: __property IDictionary* get_AdProperties();

[VB] Public ReadOnly Property AdProperties As IDictionary

[JScript] public function get AdProperties() : IDictionary;

Description

Gets a **System.Collections.IDictionary** object that contains all the advertisement properties for the currently displayed advertisement.

Use the **System.Web.UI.WebControls.AdCreatedEventArgs.AdProperties** property to get a **System.Collections.IDictionary** object that contains the advertisement properties for the currently displayed advertisement. The keys and values of the **System.Collections.IDictionary** object are of type **System.String** .

AlternateText

[C#] public string AlternateText {get; set;}

[C++] public: __property String* get_AlternateText();public: __property void set_AlternateText(String*);

[VB] Public Property AlternateText As String

[JScript] public function get AlternateText() : String;public function set AlternateText(String);

Description

Gets or sets the alternate text displayed in the **System.Web.UI.WebControls.AdRotator** control when the advertisement image is unavailable. Browsers that support the ToolTips feature display this text as a ToolTip for the advertisement.

Use the **System.Web.UI.WebControls.AdCreatedEventArgs.AlternateText** property to specify the text to display if the image specified in the **System.Web.UI.WebControls.AdCreatedEventArgs.ImageUrl** property is not available. In browsers that support the ToolTips feature, this text also displays as a ToolTip for the advertisement.

ImageUrl

[C#] public string ImageUrl {get; set;}

[C++] public: __property String* get_ImageUrl();public: __property void set_ImageUrl(String*);

[VB] Public Property ImageUrl As String

[JScript] public function get ImageUrl() : String;public function set ImageUrl(String);

Description

Gets or sets the URL of an image to display in the **System.Web.UI.WebControls.AdRotator** control.

Use the **System.Web.UI.WebControls.AdCreatedEventArgs.ImageUrl** property to specify the URL of an image to display for an advertisement in the **System.Web.UI.WebControls.AdRotator** control. You can use a relative or an absolute URL. A relative URL relates the location of the image to the location of the Web page without specifying a complete path on the server. The path is relative to the location of the Web page. This makes it easier to move the entire site to another directory on the server without updating the path to the image in code. An absolute URL provides the complete path, so moving the site to another directory requires updating the code.

NavigateUrl

[C#] public string NavigateUrl {get; set;}

[C++] public: __property String* get_NavigateUrl();public: __property void set_NavigateUrl(String*);

[VB] Public Property NavigateUrl As String

[JScript] public function get NavigateUrl() : String;public function set NavigateUrl(String);

Description

Gets or sets the Web page to display when the **System.Web.UI.WebControls.AdRotator** control is clicked.

Use the **System.Web.UI.WebControls.AdCreatedEventArgs.NavigateUrl** property to specify the Web page to display when the **System.Web.UI.WebControls.AdRotator** control is clicked.

Methods:

AdCreatedEventHandler delegate (System.Web.UI.WebControls)

ToString

Description

Represents the method that will handle the **System.Web.UI.WebControls.AdRotator.AdCreated** event of an **System.Web.UI.WebControls.AdRotator** control. The source of the event. An **System.Web.UI.WebControls.AdCreatedEventArgs** that contains the event data.

The **System.Web.UI.WebControls.AdRotator.AdCreated** event is raised when the **System.Web.UI.WebControls.AdRotator** displays an advertisement on the page.

AdRotator class (System.Web.UI.WebControls)

ToString

Description

Displays an advertisement banner on a Web page.

Use the **System.Web.UI.WebControls.AdRotator** control to display a randomly selected advertisement banner on the Web page. The displayed advertisement can change whenever the page refreshes.

AdRotator

Example Syntax:

ToString

```
[C#] public AdRotator();
[C++] public: AdRotator();
[VB] Public Sub New()
[JScript] public function AdRotator();
```

Description

Initializes a new instance of the **System.Web.UI.WebControls.AdRotator** class.

Use this constructor to create and initialize a new instance of the **System.Web.UI.WebControls.AdRotator** class.

AccessKey

AdvertisementFile

ToString

Description

Gets or sets the path to an XML file that contains advertisement information.

Use the **System.Web.UI.WebControls.AdRotator.AdvertisementFile** property to specify the location of an XML file that contains advertisement information. The XML file must reside within the same web site. For deployment and security purposes, you should place the file in the same web application. It is only possible to access an XML file that is located in a different application on the same site if the application has sufficient trust.

Attributes

BackColor

BorderColor

BorderStyle

BorderWidth

ChildControlsCreated

ClientID

Context

Controls

ControlStyle

ControlStyleCreated

CssClass

Enabled

EnableViewState

Events

Font

ToString

Description

Font property. Has no effect on this control, so hide it.

ForeColor

HasChildViewState

Height

ID

IsTrackingViewState

KeywordFilter

ToString

Description

Gets or sets a category keyword to filter for specific types of advertisements in the XML advertisement file.

Each advertisement in the XML advertisement file can be assigned a category keyword. Use the **System.Web.UI.WebControls.AdRotator.KeywordFilter** property to filter the advertisements for the specified keyword. Only advertisements containing the keyword will be selected for the **System.Web.UI.WebControls.AdRotator** control. The **System.Web.UI.WebControls.AdRotator.KeywordFilter** property can be programmatically set to match the profile of the user.

NamingContainer

Page

Parent

Site

Style

TabIndex

TagKey

TagName

Target

ToString

Description

Gets or sets the name of the browser window or frame that displays the contents of the Web page linked to when the **System.Web.UI.WebControls.AdRotator** control is clicked.

Use the **System.Web.UI.WebControls.AdRotator.Target** property to specify the target window or frame that displays the contents of the Web page linked to when the **System.Web.UI.WebControls.AdRotator** control is clicked. Values must begin with a letter in the range of a to z (case insensitive), except for the following special values, which begin with an underscore: _blank Renders the content in a new, unframed window.

TemplateSourceDirectory

ToolTip

UniqueID

ViewState

ViewStateIgnoresCase

Visible

Width

ToString

Description

Occurs once per round trip to the server after the creation of the control, but before the page is rendered.

This event is raised once per round trip to the server after the creation of the control, but before the page is rendered.

CreateControlCollection

[C#] protected override ControlCollection CreateControlCollection();

[C++] protected: ControlCollection* CreateControlCollection();

[VB] Overrides Protected Function CreateControlCollection() As ControlCollection

[JScript] protected override function CreateControlCollection() : ControlCollection;

Description

OnAdCreated

[C#] protected virtual void OnAdCreated(AdCreatedEventArgs e);

[C++] protected: virtual void OnAdCreated(AdCreatedEventArgs* e);

[VB] Overridable Protected Sub OnAdCreated(ByVal e As AdCreatedEventArgs)

[JScript] protected function OnAdCreated(e : AdCreatedEventArgs);

Description

Raises the **System.Web.UI.WebControls.AdRotator.AdCreated** event for the **System.Web.UI.WebControls.AdRotator** control.

The **System.Web.UI.WebControls.AdRotator.AdCreated** event is raised on the server after the **System.Web.UI.WebControls.AdRotator** control is created, but before the page is rendered. If the **System.Web.UI.WebControls.AdRotator.AdvertisementFile** property is set, the **System.Web.UI.WebControls.AdRotator.AdCreated** event is raised after an advertisement has been selected by the **System.Web.UI.WebControls.AdRotator** control. An **System.Web.UI.WebControls.AdCreatedEventArgs** that contains event data.

OnPreRender

[C#] protected override void OnPreRender(EventArgs e);

[C++] protected: void OnPreRender(EventArgs* e);

[VB] Overrides Protected Sub OnPreRender(ByVal e As EventArgs)

[JScript] protected override function OnPreRender(e : EventArgs);

Description

Gets the advertisement information for rendering by looking up the file data and/or calling the user event.

Randomly picks an advertisement based on the impresssion (weight) value of the advertisement.

Render

[C#] protected override void Render(HtmlTextWriter writer);

[C++] protected: void Render(HtmlTextWriter* writer);

[VB] Overrides Protected Sub Render(ByVal writer As HtmlTextWriter)

[JScript] protected override function Render(writer : HtmlTextWriter);

Description

Displays the **System.Web.UI.WebControls.AdRotator** on the client.

Displays an image obtained from the ad chosen in **System.Web.UI.WebControls.AdRotator.OnPreRender(System.EventArgs)** . A **System.Web.UI.HtmlTextWriter** that contains the output stream to render on the client.

BaseCompareValidator class (System.Web.UI.WebControls)

TrackViewState

Description

Serves as the abstract base class for validation controls that perform comparisons.

The **System.Web.UI.WebControls.BaseCompareValidator** class is inherited by validation controls that compare values, such as the **System.Web.UI.WebControls.CompareValidator** and **System.Web.UI.WebControls.RangeValidator** controls.

BaseCompareValidator

Example Syntax:

TrackViewState

[C#] protected BaseCompareValidator();

[C++] protected: BaseCompareValidator();

[VB] Protected Sub New()

[JScript] protected function BaseCompareValidator();

AccessKey

Attributes

BackColor

BorderColor

BorderStyle

BorderWidth

ChildControlsCreated

ClientID

Context

Controls

ControlStyle

ControlStyleCreated

ControlToValidate

CssClass

CutoffYear

TrackViewState

Description

Gets the maximum year that can be represented by a two-digit year.

Use the **System.Web.UI.WebControls.BaseCompareValidator.CutoffYear** property to determine the maximum year that can be represented by a two-digit year in a 100 year range. For example, if this property contains the value **2029** , you can represent the years 1930 to 2029 by using a two-digit year. The two-digit year 30 is interpreted as 1930, while 29 is interpreted as 2029. You cannot change the value of this property directly, however you can change the maximum year that can be represented by a two-digit year by setting the **System.Globalization.Calendar.TwoDigitYearMax** property.

Display

EnableClientScript

Enabled

EnableViewState

ErrorMessage

Events

Font

ForeColor

HasChildViewState

Height

ID

IsTrackingViewState

IsValid

NamingContainer

Page

Parent

PropertiesValid

RenderUplevel

Site

Style

TabIndex

TagKey

TagName

TemplateSourceDirectory

Text

ToolTip

Type

TrackViewState

Description

Gets or sets the data type of the values being compared.

Use the **System.Web.UI.WebControls.BaseCompareValidator.Type** property to specify the data type of the two values being compared. Both values are converted to the specified data type before any comparison is performed.

UniqueID

ViewState

ViewStateIgnoresCase

Visible

Width

AddAttributesToRender

[C#] protected override void AddAttributesToRender(HtmlTextWriter writer);

[C++] protected: void AddAttributesToRender(HtmlTextWriter* writer);

[VB] Overrides Protected Sub AddAttributesToRender(ByVal writer As HtmlTextWriter)

[JScript] protected override function AddAttributesToRender(writer : HtmlTextWriter);

Description

AddAttributesToRender method AddAttributesToRender method

CanConvert

[C#] public static bool CanConvert(string text, ValidationDataType type);

[C++] public: static bool CanConvert(String* text, ValidationDataType type);

[VB] Public Shared Function CanConvert(ByVal text As String, ByVal type As ValidationDataType) As Boolean

[JScript] public static function CanConvert(text : String, type : ValidationDataType) : Boolean;

Description

Determines whether the specified string can be converted to the specified data type.

Return Value: **true** if the specified data string is convertible to the specified data type; otherwise, **false** .

Use the **System.Web.UI.WebControls.BaseCompareValidator.CanConvert(System.String,System.Web.UI.WebControls.ValidationDataType)** method to determine whether the specified string can be converted to the specified data type. This method is commonly used to test whether a string can be converted to a compatible data type before performing an operation that depends on that data type. The string to test whether the specified data type conversion is possible. One of the **System.Web.UI.WebControls.ValidationDataType** enumeration values.

Compare

[C#] protected static bool Compare(string leftText, string rightText, ValidationCompareOperator op, ValidationDataType type);

[C++] protected: static bool Compare(String* leftText, String* rightText, ValidationCompareOperator op, ValidationDataType type);

[VB] Protected Shared Function Compare(ByVal leftText As String, ByVal rightText As String, ByVal op As ValidationCompareOperator, ByVal type As ValidationDataType) As Boolean

[JScript] protected static function Compare(leftText : String, rightText : String, op : ValidationCompareOperator, type : ValidationDataType) : Boolean;

Description

Compares two strings using the specified operator and validation data type. *Return Value:* **true** if the conversion is successful; otherwise **false** . The string value on the left side of the operator. The string value on the right side of the operator. A **System.Web.UI.WebControls.ValidationCompareOperator** object that represents the comparison operation to perform. A **System.Web.UI.WebControls.ValidationDataType** object that represents the data type of the operands.

Convert

[C#] protected static bool Convert(string text, ValidationDataType type, out object value);

[C++] protected: static bool Convert(String* text, ValidationDataType type, Object** value);

[VB] Protected Shared Function Convert(ByVal text As String, ByVal type As ValidationDataType, ByRef value As Object) As Boolean

[JScript] protected static function Convert(text : String, type :

ValidationDataType, value : Object) : Boolean;

Description

Converts the specified text into an object with specified validation data type.

Return Value: **true** if the conversion is successful; otherwise **false** . The source text to convert from. A **System.Web.UI.WebControls.ValidationDataType** object that represents the data type to convert the text into. A **System.Object** that contains the conversion result.

DetermineRenderUplevel

[C#] protected override bool DetermineRenderUplevel();
[C++] protected: bool DetermineRenderUplevel();
[VB] Overrides Protected Function DetermineRenderUplevel() As Boolean
[JScript] protected override function DetermineRenderUplevel() : Boolean;

Description

Determines whether the validation control can be rendered for an uplevel browser.

Return Value: **true** if the validation control can be rendered for an uplevel browser; otherwise, **false** .

GetDateElementOrder

[C#] protected static string GetDateElementOrder();
[C++] protected: static String* GetDateElementOrder();

[VB] Protected Shared Function GetDateElementOrder() As String

[JScript] protected static function GetDateElementOrder() : String;

Description

Return the order of date elements for the current culture Return the order of date elements for the current culture

GetFullYear

[C#] protected static int GetFullYear(int shortYear);

[C++] protected: static int GetFullYear(int shortYear);

[VB] Protected Shared Function GetFullYear(ByVal shortYear As Integer) As Integer

[JScript] protected static function GetFullYear(shortYear : int) : int;

Description

Generates the four-digit year representation of the specified two-digit year.

Return Value: The four-digit year representation of the specified two-digit year.

Use the **System.Web.UI.WebControls.BaseCompareValidator.GetFullYear(System.Int32)** method to generate the four-digit year representation of the specified two-digit year. The four-digit year representation depends on the value of the **System.Globalization.BaseCompareValidator.CutoffYear** property, which contains the maximum year that can be represented by a two-digit year in a 100 year range. For example, if the **System.Globalization.BaseCompareValidator.CutoffYear** property contains the value **2029** , the **System.Web.UI.WebControls.BaseCompareValidator.GetFullYear(System.Int32)** method returns a year between 1930 to 2029. The two-digit year 30 is interpreted as 1930, while 29 is interpreted as 2029. You can change the maximum year that can be represented by a two-digit year by setting the **System.Globalization.Calendar.TwoDigitYearMax** property. A two-digit year.

BaseDataList class (System.Web.UI.WebControls)

Validate

Description

Serves as the abstract base class for data list controls, such as the **System.Web.UI.WebControls.DataList** and **System.Web.UI.WebControls.DataGrid** controls. This class provides methods and properties that are common to all data list controls.

The **System.Web.UI.WebControls.BaseDataList** class provides the common functionality for all data list controls, such as the **System.Web.UI.WebControls.DataList** and **System.Web.UI.WebControls.DataGrid** controls. An instance of this class is not created directly. Instead, data list controls inherit the methods and properties common to all data list controls from this class.

BaseDataList

Example Syntax:

Validate

[C#] public BaseDataList();

[C++] public: BaseDataList();

[VB] Public Sub New()

[JScript] public function BaseDataList();

Description

Initializes a new instance of the **System.Web.UI.WebControls.BaseDataList** class.

A **System.Web.UI.WebControls.BaseDataList** object is not created directly. This constructor is commonly called in the constructor of a derived class to initialize the properties defined in the **System.Web.UI.WebControls.BaseDataList** class.

AccessKey

Attributes

BackColor

BorderColor

BorderStyle

BorderWidth

CellPadding

Validate

Description

Gets or sets the amount of space between the contents of a cell and the cell's border.

Use the **System.Web.UI.WebControls.BaseDataList.CellPadding** property to control the spacing between the contents of a cell and the cell's border. The padding amount specified is added to all four sides of a cell. All cells in the same column of the list control share the same cell width. Therefore, if the content of one cell is longer than the content other cells in the same column, the padding amount is applied to the width of longest cell. All other cells in the column will also share the same cell width. The same is true for all cells in the same row. The padding amount is applied to the tallest cell in the row, with all cells in the same row sharing the same cell height. Individual cell sizes cannot be specified.

CellSpacing

Validate

[C#] public virtual int CellSpacing {get; set;}

[C++] public: __property virtual int get_CellSpacing();public: __property virtual void set_CellSpacing(int);

[VB] Overridable Public Property CellSpacing As Integer

[JScript] public function get CellSpacing() : int;public function set CellSpacing(int);

Description

Gets or sets the amount of space between cells.

Use the **System.Web.UI.WebControls.BaseDataList.CellSpacing** property to control the spacing between adjacent cells in the list control. This spacing is applied both vertically and horizontally.

ChildControlsCreated

ClientID

Context

Controls

Validate

Description

ControlStyle

ControlStyleCreated

CssClass

DataKeyField

Validate

Description

Gets or sets the primary key field in the data source referenced by **System.Web.UI.WebControls.BaseDataList.DataSource** .

DataKeys

Validate

```
[C#] public DataKeyCollection DataKeys {get;}
[C++] public: __property DataKeyCollection* get_DataKeys();
[VB] Public ReadOnly Property DataKeys As DataKeyCollection
[JScript] public function get DataKeys() : DataKeyCollection;
```

Description

Gets a collection that stores the primary key values of each record (displayed as a row) in the list control.

Use the **System.Web.UI.WebControls.BaseDataList.DataKeyCollection** to access the primary key values of each record (displayed as a row) in the list control. This property is commonly used to include the primary key field with the list control without displaying it in the control. The collection is filled with the values from the field specified by the **System.Web.UI.WebControls.BaseDataList.DataKeyField** property.

DataKeysArray

Validate

```
[C#] protected ArrayList DataKeysArray {get;}
[C++] protected: __property ArrayList* get_DataKeysArray();
[VB] Protected ReadOnly Property DataKeysArray As ArrayList
[JScript] protected function get DataKeysArray() : ArrayList;
```

Description

Gets a list of key fields in the data source.

DataMember

Validate

[C#] public string DataMember {get; set;}

[C++] public: __property String* get_DataMember();public: __property void set_DataMember(String*);

[VB] Public Property DataMember As String

[JScript] public function get DataMember() : String;public function set DataMember(String);

Description

Gets or sets the specific data member in a multi member **System.Web.UI.WebControls.BaseDataList.DataSource** to bind to the list control.

Use the **System.Web.UI.WebControls.BaseDataList.DataMember** property to specify a member from a multi member **System.Web.UI.WebControls.BaseDataList.DataSource** to bind to the list control. For example, if you had a **System.Web.UI.WebControls.BaseDataList.DataSource** that contains multiple tables, you can use the **System.Web.UI.WebControls.BaseDataList.DataMember** property to specify the table to bind to the list control.

DataSource

Validate

[C#] public virtual object DataSource {get; set;}

[C++] public: __property virtual Object* get_DataSource();public: __property virtual void set_DataSource(Object*);

[VB] Overridable Public Property DataSource As Object

[JScript] public function get DataSource() : Object;public function set DataSource(Object);

Description

Gets or sets the source to a list of values used to populate the items within the control.

Lists derived from ICollection can also be used as a DataSource.

Enabled

EnableViewState

Events

Font

ForeColor

GridLines

Validate

Description

Gets or sets a value that specifies the grid line style.

HasChildViewState

Height

HorizontalAlign

Validate

Description

Gets or sets the horizontal alignment of the control within its container.

ID

IsTrackingViewState

NamingContainer

Page

Parent

Site

Style

TabIndex

TagKey

TagName

TemplateSourceDirectory

ToolTip

UniqueID

ViewState

ViewStateIgnoresCase

Visible

Width

Validate

Description

Occurs when an item on the list is selected.

AddParsedSubObject

[C#] protected override void AddParsedSubObject(object obj);

[C++] protected: void AddParsedSubObject(Object* obj);

[VB] Overrides Protected Sub AddParsedSubObject(ByVal obj As Object)

[JScript] protected override function AddParsedSubObject(obj : Object);

Description

Overridden. The object to add.

CreateChildControls

[C#] protected override void CreateChildControls();

[C++] protected: void CreateChildControls();

[VB] Overrides Protected Sub CreateChildControls()

[JScript] protected override function CreateChildControls();

Description

Creates a child control using the view state.

CreateControlHierarchy

[C#] protected abstract void CreateControlHierarchy(bool useDataSource);

[C++] protected: virtual void CreateControlHierarchy(bool useDataSource) = 0;

[VB] MustOverride Protected Sub CreateControlHierarchy(ByVal useDataSource As Boolean)

[JScript] protected abstract function CreateControlHierarchy(useDataSource : Boolean);

Description

Overridden. **true** to use the **System.Web.UI.WebControls.BaseDataList.DataSource**; otherwise, **false**.

DataBind

[C#] public override void DataBind();

[C++] public: void DataBind();

[VB] Overrides Public Sub DataBind()

[JScript] public override function DataBind();

Description

Binds the control and all of its child controls to the data source specified by the **System.Web.UI.WebControls.BaseDataList.DataSource** property.

IsBindableType

[C#] public static bool IsBindableType(Type type);

[C++] public: static bool IsBindableType(Type* type);

[VB] Public Shared Function IsBindableType(ByVal type As Type) As Boolean

[JScript] public static function IsBindableType(type : Type) : Boolean;

Description

Determines whether the specified data type is bindable to a list control that derives from the **System.Web.UI.WebControls.BaseDataList** class.

Return Value: **true** if the specified data type is bindable to a list control that derives from the **System.Web.UI.WebControls.BaseDataList** class; otherwise, **false** .

Use the **System.Web.UI.WebControls.BaseDataList.IsBindableType(System.Type)** static method to determine whether the specified data type is bindable to a list control that inherits from the **System.Web.UI.WebControls.BaseDataList** class. The supported data types are **System.Boolean** , **System.Byte** , **System.SByte** , **System.Int16** , **System.UInt16** , **System.Int32** , **System.UInt32** , **System.Int64** , **System.UInt64** , **System.Char** , **System.Double** , **System.Single** , **System.DateTime** , **System.Decimal** , and string. A **System.Type** object that contains the data type to test.

OnDataBinding

[C#] protected override void OnDataBinding(EventArgs e);

[C++] protected: void OnDataBinding(EventArgs* e);

[VB] Overrides Protected Sub OnDataBinding(ByVal e As EventArgs)

[JScript] protected override function OnDataBinding(e : EventArgs);

Description

Raises the **DataBinding** event of a **System.Web.UI.WebControls.BaseDataList**.

The event is raised when data is bound to the control. An **System.EventArgs** that contains the event data.

OnSelectedIndexChanged

```
[C#] protected virtual void OnSelectedIndexChanged(EventArgs e);
[C++] protected: virtual void OnSelectedIndexChanged(EventArgs* e);
[VB] Overridable Protected Sub OnSelectedIndexChanged(ByVal e As EventArgs)
[JScript] protected function OnSelectedIndexChanged(e : EventArgs);
```

Description

Raises the **System.Web.UI.WebControls.BaseDataList.SelectedIndexChanged** event of a **System.Web.UI.WebControls.BaseDataList**. An **System.EventArgs** that contains the event data.

PrepareControlHierarchy

```
[C#] protected abstract void PrepareControlHierarchy();
[C++] protected: virtual void PrepareControlHierarchy() = 0;
[VB] MustOverride Protected Sub PrepareControlHierarchy()
[JScript] protected abstract function PrepareControlHierarchy();
```

Description

Overridden.

Render

[C#] protected override void Render(HtmlTextWriter writer);

[C++] protected: void Render(HtmlTextWriter* writer);

[VB] Overrides Protected Sub Render(ByVal writer As HtmlTextWriter)

[JScript] protected override function Render(writer : HtmlTextWriter);

Description

Displays the control on the client. An **System.Web.UI.HtmlTextWriter** that contains the output stream to render on the client.

BaseValidator class (System.Web.UI.WebControls)

TrackViewState

Description

Serves as the abstract base class for validation controls.

The **System.Web.UI.WebControls.BaseValidator** class provides the core implementation for all validation controls.

BaseValidator

Example Syntax:

TrackViewState

[C#] protected BaseValidator();

[C++] protected: BaseValidator();

[VB] Protected Sub New()

[JScript] protected function BaseValidator();

Description

Initializes a new instance of the **System.Web.UI.WebControls.BaseValidator** class.

This constructor is not called directly. Validation controls that inherit from this class can call this constructor from their own constructors to initialize the base properties.

AccessKey

Attributes

BackColor

BorderColor

BorderStyle

BorderWidth

ChildControlsCreated

ClientID

Context

Controls

ControlStyle

ControlStyleCreated

ControlToValidate

TrackViewState

Description

Gets or sets the input control to validate.

Use the **System.Web.UI.WebControls.BaseValidator.ControlToValidate** property to specify the input control to validate. This property must be set to the ID of an input control for all validation controls except for the **System.Web.UI.WebControls.CustomValidator** control, which can be left blank. If you do not specify a valid input control, an exception will be thrown when the page is rendered. The ID must refer to a control within the same container as the validation control. It must be in the same page or user control, or it must be in the same template of a templated control.

CssClass

Display

TrackViewState

Description

Gets or sets the display behavior of the error message in a validation control.

Use the **System.Web.UI.WebControls.BaseValidator.Display** property to specify the display behavior of the error message in the validation control. The following table lists the different values that can be used.

EnableClientScript

TrackViewState

[C#] public bool EnableClientScript {get; set;}

[C++] public: __property bool get_EnableClientScript();public: __property void set_EnableClientScript(bool);

[VB] Public Property EnableClientScript As Boolean

[JScript] public function get EnableClientScript() : Boolean;public function set EnableClientScript(Boolean);

Description

Gets or sets a value indicating whether client-side validation is enabled.

Use the **System.Web.UI.WebControls.BaseValidator.EnableClientScript** property to specify whether client-side validation is enabled.

Enabled

TrackViewState

[C#] public override bool Enabled {get; set;}

[C++] public: __property virtual bool get_Enabled();public: __property virtual void set_Enabled(bool);

[VB] Overrides Public Property Enabled As Boolean

[JScript] public function get Enabled() : Boolean;public function set Enabled(Boolean);

Description

Gets or sets a value that indicates whether the validation control is enabled.

Use the **System.Web.UI.WebControls.BaseValidator.Enabled** property to specify whether the validation control is enabled. You can programmatically disable the validation control by setting this property to **false** .

EnableViewState

ErrorMessage

TrackViewState

Description

Gets or sets the text for the error message.

Use the **System.Web.UI.WebControls.BaseValidator.ErrorMessage** property to specify the text to display in the validation control when validation fails. This text is also included in the **System.Web.UI.WebControls.ValidationSummary** control, if one is placed on the Web page.

Events

Font

ForeColor

TrackViewState

Description

Gets or sets the color of the message displayed when validation fails.

Use the **System.Web.UI.WebControls.BaseValidator.ForeColor** property to specify a custom text color for the message displayed when validation fails.

HasChildViewState

Height

ID

IsTrackingViewState

IsValid

TrackViewState

Description

Gets or sets a value that indicates whether the associated input control passes validation.

Use the **System.Web.UI.WebControls.BaseValidator.IsValid** property to determine whether the associated input control passes validation.

NamingContainer

Page

Parent

PropertiesValid

TrackViewState

Description

Gets a value that indicates whether the control specified by the **System.Web.UI.WebControls.BaseValidator.ControlToValidate** property is a valid control.

Use the **System.Web.UI.WebControls.BaseValidator.PropertiesValid** property to determine whether the **System.Web.UI.WebControls.BaseValidator.ControlToValidate** property contains a valid input control. To be a valid input control, the **System.Web.UI.WebControls.BaseValidator.ControlToValidate** property must set to a control on the page.

RenderUplevel

TrackViewState

```
[C#] protected bool RenderUplevel {get;}
[C++] protected: __property bool get_RenderUplevel();
[VB] Protected ReadOnly Property RenderUplevel As Boolean
[JScript] protected function get RenderUplevel() : Boolean;
```

Description

Gets a value that indicates whether the client's browser supports uplevel rendering.

Use the **System.Web.UI.WebControls.BaseValidator.RenderUplevel** property to determine whether the client's browser supports uplevel rendering. For a browser to support uplevel rendering, it must support Microsoft XML Document Object Model (DOM) version 4 or higher and any version of ECMAScript.

Site

Style

TabIndex

TagKey

TagName

TemplateSourceDirectory

Text

ToolTip

UniqueID

ViewState

ViewStateIgnoresCase

Visible

Width

AddAttributesToRender

[C#] protected override void AddAttributesToRender(HtmlTextWriter writer);

[C++] protected: void AddAttributesToRender(HtmlTextWriter* writer);

[VB] Overrides Protected Sub AddAttributesToRender(ByVal writer As HtmlTextWriter)

[JScript] protected override function AddAttributesToRender(writer : HtmlTextWriter);

Description

Adds the attributes of this control to the output stream for rendering on the client. An **System.Web.UI.HtmlTextWriter** that contains the output stream to render on the client.

CheckControlValidationProperty

[C#] protected void CheckControlValidationProperty(string name, string propertyName);

[C++] protected: void CheckControlValidationProperty(String* name, String* propertyName);

[VB] Protected Sub CheckControlValidationProperty(ByVal name As String, ByVal propertyName As String)

[JScript] protected function CheckControlValidationProperty(name : String, propertyName : String);

Description

Helper function that verifies whether the specified control is on the page and contains validation properties.

The **System.Web.UI.WebControls.BaseValidator.CheckControlValidationProperty(System.String,System.String)** method is a helper function primarily used by the **System.Web.UI.WebControls.BaseValidator.ControlPropertiesValid** method to verify whether the specified control is on the page and contains validation properties. This method does not return a value to report the result. Instead, it throws an exception when verification fails. The control to verify. The property that contains the control name.

ControlPropertiesValid

[C#] protected virtual bool ControlPropertiesValid();

[C++] protected: virtual bool ControlPropertiesValid();

[VB] Overridable Protected Function ControlPropertiesValid() As Boolean

[JScript] protected function ControlPropertiesValid() : Boolean;

Description

Helper function that determines whether the control specified by the **System.Web.UI.WebControls.BaseValidator.ControlToValidate** property is a valid control.

Return Value: **true** if the control specified by the **System.Web.UI.WebControls.BaseValidator.ControlToValidate** property is a valid control; otherwise, **false** .

The **System.Web.UI.WebControls.BaseValidator.ControlPropertiesValid** method is a helper function primarily used by the **System.Web.UI.WebControls.BaseValidator.PropertiesValid** property to determine whether the **System.Web.UI.WebControls.BaseValidator.ControlToValidate** property contains a valid input control. To be a valid input control, the **System.Web.UI.WebControls.BaseValidator.ControlToValidate** property must be set to some value and that value must be a control on the page.

DetermineRenderUplevel

[C#] protected virtual bool DetermineRenderUplevel();

[C++] protected: virtual bool DetermineRenderUplevel();

[VB] Overridable Protected Function DetermineRenderUplevel() As Boolean

[JScript] protected function DetermineRenderUplevel() : Boolean;

Description

Helper function that determines whether the validator control can be rendered for an uplevel browser.

Return Value: **true** if the validator control can be rendered for an uplevel browser; otherwise, **false** .

The **System.Web.UI.WebControls.BaseValidator.DetermineRenderUplevel** method is a helper function used primarily by the **System.Web.UI.WebControls.BaseValidator.RenderUplevel** property to determine whether the client's browser supports uplevel rendering. For a browser to support uplevel rendering, it must support Microsoft XML Document Object Model (DOM) version 4 or higher and any version of ECMAScript.

EvaluateIsValid

[C#] protected abstract bool EvaluateIsValid();

[C++] protected: virtual bool EvaluateIsValid() = 0;

[VB] MustOverride Protected Function EvaluateIsValid() As Boolean

[JScript] protected abstract function EvaluateIsValid() : Boolean;

Description

When overridden in a derived class, this method contains the code to determine whether the value in the input control is valid.

Return Value: **true** if the value in the input control is valid; otherwise, **false** .

Use the **System.Web.UI.WebControls.BaseValidator.EvaluateIsValid** method to determine whether the value in the input control specified by the **System.Web.UI.WebControls.BaseValidator.ControlToValidate** property is valid.

GetControlRenderID

[C#] protected string GetControlRenderID(string name);

[C++] protected: String* GetControlRenderID(String* name);

[VB] Protected Function GetControlRenderID(ByVal name As String) As String

[JScript] protected function GetControlRenderID(name : String) : String;

Description

Gets the client ID of the specified control.

Return Value: The client ID of the specified control.

Use the **System.Web.UI.WebControls.BaseValidator.GetControlRenderID(System.String)** method to get the client ID of the specified control. The name of the control to get the client ID.

GetControlValidationValue

[C#] protected string GetControlValidationValue(string name);

[C++] protected: String* GetControlValidationValue(String* name);

[VB] Protected Function GetControlValidationValue(ByVal name As String) As String

[JScript] protected function GetControlValidationValue(name : String) : String;

Description

Gets the value associated with the specified input control.

Return Value: The value associated with the specified input control.

Use the **System.Web.UI.WebControls.BaseValidator.GetControlValidationValue(System.String)** method to get the value associated with the specified input control, regardless of the control type. For example, you can use this method to get the value in a **System.Web.UI.WebControls.TextBox** control, as well as the value of the selected item from a **System.Web.UI.WebControls.ListBox** control. The name of the input control to get the value from.

GetValidationProperty

[C#] public static PropertyDescriptor GetValidationProperty(object component);

[C++] public: static PropertyDescriptor* GetValidationProperty(Object* component);

[VB] Public Shared Function GetValidationProperty(ByVal component As Object) As PropertyDescriptor

[JScript] public static function GetValidationProperty(component : Object) : PropertyDescriptor;

Description

Helper function to get the validation property of a control (if it exists).

Return Value: A **System.ComponentModel.PropertyDescriptor** that contains the validation property of the control.

The **System.Web.UI.WebControls.BaseValidator.GetValidationProperty(System.Object)** method is a helper function that gets the validation property of the specified input control. An **System.Object** that represents the control to get the validation property of.

OnInit

```
[C#] protected override void OnInit(EventArgs e);
[C++] protected: void OnInit(EventArgs* e);
[VB] Overrides Protected Sub OnInit(ByVal e As EventArgs)
[JScript] protected override function OnInit(e : EventArgs);
```

Description

Registers the validator on the page. An **System.EventArgs** that contains the event data.

OnPreRender

```
[C#] protected override void OnPreRender(EventArgs e);
[C++] protected: void OnPreRender(EventArgs* e);
[VB] Overrides Protected Sub OnPreRender(ByVal e As EventArgs)
[JScript] protected override function OnPreRender(e : EventArgs);
```

Description

Checks the client brower and configures the validator for compatibility prior to rendering.

OnUnload

[C#] protected override void OnUnload(EventArgs e);

[C++] protected: void OnUnload(EventArgs* e);

[VB] Overrides Protected Sub OnUnload(ByVal e As EventArgs)

[JScript] protected override function OnUnload(e : EventArgs);

Description

Un-registers the validator on the page.

RegisterValidatorCommonScript

[C#] protected void RegisterValidatorCommonScript();

[C++] protected: void RegisterValidatorCommonScript();

[VB] Protected Sub RegisterValidatorCommonScript()

[JScript] protected function RegisterValidatorCommonScript();

Description

Registers code on the page for client-side validation.

Use the **System.Web.UI.WebControls.BaseValidator.RegisterValidatorCommonScript** method to register code on the page to perform client-side validation.

RegisterValidatorDeclaration

[C#] protected virtual void RegisterValidatorDeclaration();

[C++] protected: virtual void RegisterValidatorDeclaration();

[VB] Overridable Protected Sub RegisterValidatorDeclaration()

[JScript] protected function RegisterValidatorDeclaration(); Registers an ECMAScript array declaration used on the page by client-side code.

Description

Registers an ECMAScript array declaration using the array name, **Page_Validators** .

Use the **System.Web.UI.WebControls.BaseValidator.RegisterValidatorDeclaration** method to register an ECMAScript array declaration using the array name, **Page_Validators** .

Render

[C#] protected override void Render(HtmlTextWriter writer);

[C++] protected: void Render(HtmlTextWriter* writer);

[VB] Overrides Protected Sub Render(ByVal writer As HtmlTextWriter)

[JScript] protected override function Render(writer : HtmlTextWriter);

Description

Displays the control on the client. An **System.Web.UI.HtmlTextWriter** that contains the output stream for rendering on the client.

Validate

[C#] public void Validate();

[C++] public: __sealed void Validate();

[VB] NotOverridable Public Sub Validate()

[JScript] public function Validate();

Description

Performs validation on the associated input control and updates the **System.Web.UI.WebControls.BaseValidator.IsValid** property.

Use the **System.Web.UI.WebControls.BaseValidator.Validate** method to perform validation on the associated input control. This method allows you to programmatically perform validation on the input control. The **System.Web.UI.WebControls.BaseValidator.IsValid** property is automatically updated with the validation results.

BorderStyle enumeration (System.Web.UI.WebControls)

Validate

Description

Specifies the border style of a control.

The **System.Web.UI.WebControls.BorderStyle** enumeration represents the different border style options for a control.

Validate

[C#] public const BorderStyle Dashed;

[C++] public: const BorderStyle Dashed;

[VB] Public Const Dashed As BorderStyle

[JScript] public var Dashed : BorderStyle;

Description

A dashed line border.

Validate

```
[C#] public const BorderStyle Dotted;
[C++] public: const BorderStyle Dotted;
[VB] Public Const Dotted As BorderStyle
[JScript] public var Dotted : BorderStyle;
```

Description

A dotted line border.

Validate

```
[C#] public const BorderStyle Double;
[C++] public: const BorderStyle Double;
[VB] Public Const Double As BorderStyle
[JScript] public var Double : BorderStyle;
```

Description

A double solid line border.

Validate

```
[C#] public const BorderStyle Groove;
[C++] public: const BorderStyle Groove;
```

[VB] Public Const Groove As BorderStyle

[JScript] public var Groove : BorderStyle;

Description

A grooved border for a sunken border appearance.

Validate

[C#] public const BorderStyle Inset;

[C++] public: const BorderStyle Inset;

[VB] Public Const Inset As BorderStyle

[JScript] public var Inset : BorderStyle;

Description

An inset border for a sunken control appearance.

Validate

[C#] public const BorderStyle None;

[C++] public: const BorderStyle None;

[VB] Public Const None As BorderStyle

[JScript] public var None : BorderStyle;

Description

No border.

Validate

```
[C#] public const BorderStyle NotSet;
[C++] public: const BorderStyle NotSet;
[VB] Public Const NotSet As BorderStyle
[JScript] public var NotSet : BorderStyle;
```

Description

No set border style.

Validate

```
[C#] public const BorderStyle Outset;
[C++] public: const BorderStyle Outset;
[VB] Public Const Outset As BorderStyle
[JScript] public var Outset : BorderStyle;
```

Description

An outset border for a raised control appearance.

Validate

```
[C#] public const BorderStyle Ridge;
[C++] public: const BorderStyle Ridge;
[VB] Public Const Ridge As BorderStyle
[JScript] public var Ridge : BorderStyle;
```

Description

A ridged border for a raised border appearance.

Validate

[C#] public const BorderStyle Solid;

[C++] public: const BorderStyle Solid;

[VB] Public Const Solid As BorderStyle

[JScript] public var Solid : BorderStyle;

Description

A solid line border.

BoundColumn class (System.Web.UI.WebControls)

ToString

Description

A column type for the **System.Web.UI.WebControls.DataGrid** control that is bound to a field in a data source.

Use the **System.Web.UI.WebControls.BoundColumn** column type in a **System.Web.UI.WebControls.DataGrid** control to display the contents of a field in the data source in a single column. The field is linked to the **System.Web.UI.WebControls.BoundColumn** , so any updates in the data source are reflected in the corresponding cells of the **System.Web.UI.WebControls.DataGrid** control.

ToString

[C#] public static readonly string thisExpr;

[C++] public: static String* thisExpr;

[VB] Public Shared ReadOnly thisExpr As String

[JScript] public static var thisExpr : String;

Description

Represents the string "!". This field is read-only.

Use the **System.Web.UI.WebControls.BoundColumn.thisExpr** field to represent the "!" string.

BoundColumn

Example Syntax:

ToString

[C#] public BoundColumn();

[C++] public: BoundColumn();

[VB] Public Sub New()

[JScript] public function BoundColumn();

Description

Initializes a new instance of the **System.Web.UI.WebControls.BoundColumn** class.

Use this constructor to create and initialize a new instance of the **System.Web.UI.WebControls.BoundColumn** class.

DataField

ToString

[C#] public virtual string DataField {get; set;}

[C++] public: __property virtual String* get_DataField();public: __property virtual void set_DataField(String*);

[VB] Overridable Public Property DataField As String

[JScript] public function get DataField() : String;public function set DataField(String);

Description

Gets or sets the field name from the data source to bind to the **System.Web.UI.WebControls.BoundColumn** .

Use the **System.Web.UI.WebControls.BoundColumn.DataField** property to specify the field to bind to the **System.Web.UI.WebControls.BoundColumn** .

DataFormatString

ToString

[C#] public virtual string DataFormatString {get; set;}

[C++] public: __property virtual String* get_DataFormatString();public: __property virtual void set_DataFormatString(String*);

[VB] Overridable Public Property DataFormatString As String

[JScript] public function get DataFormatString() : String;public function set DataFormatString(String);

Description

Gets or sets the string that specifies the display format for items in the column.

Use the **System.Web.UI.WebControls.BoundColumn.DataFormatString** property to provide a custom format for the items in the column.

DesignMode

FooterStyle

FooterText

HeaderImageUrl

HeaderStyle

HeaderText

IsTrackingViewState

ItemStyle

Owner

ReadOnly

ToString

Description

Gets or sets a value that indicates whether the items in the **System.Web.UI.WebControls.BoundColumn** can be edited.

Use the **System.Web.UI.WebControls.BoundColumn.ReadOnly** property to specify whether the items in the

System.Web.UI.WebControls.BoundColumn can be edited. This property can also be used to programmatically determine whether the column is read-only.

SortExpression

ViewState

Visible

FormatDataValue

```
[C#] protected virtual string FormatDataValue(object dataValue);
[C++] protected: virtual String* FormatDataValue(Object* dataValue);
[VB] Overridable Protected Function FormatDataValue(ByVal dataValue As
Object) As String
[JScript] protected function FormatDataValue(dataValue : Object) : String;
```

Description

Converts the specified value to the format indicated by the **System.Web.UI.WebControls.BoundColumn.DataFormatString** property.

Return Value: The specified value converted to the format indicated by the **System.Web.UI.WebControls.BoundColumn.DataFormatString** property.

Use the **System.Web.UI.WebControls.BoundColumn.FormatDataValue(System.Object)** method to convert the specified value to the format indicated by the **System.Web.UI.WebControls.BoundColumn.DataFormatString** property. The value to format.

Initialize

[C#] public override void Initialize();
[C++] public: void Initialize();
[VB] Overrides Public Sub Initialize()
[JScript] public override function Initialize();

Description

Resets the **System.Web.UI.WebControls.BoundColumn** to its initial state.

Use the **System.Web.UI.WebControls.BoundColumn.Initialize** method to reset the **System.Web.UI.WebControls.BoundColumn** to its initial state.

InitializeCell

[C#] public override void InitializeCell(TableCell cell, int columnIndex, ListItemType itemType);
[C++] public: void InitializeCell(TableCell* cell, int columnIndex, ListItemType itemType);
[VB] Overrides Public Sub InitializeCell(ByVal cell As TableCell, ByVal columnIndex As Integer, ByVal itemType As ListItemType)
[JScript] public override function InitializeCell(cell : TableCell, columnIndex : int, itemType : ListItemType);

Description

Resets the specified cell in the **System.Web.UI.WebControls.BoundColumn** to its initial state.

The **System.Web.UI.WebControls.BoundColumn.InitializeCell(System.Web.UI.WebControls.TableCell,System.Int32,System.Web.UI.WebControls.ListItemType)** method resets the specified cell in the **System.Web.UI.WebControls.BoundColumn** to its initial state. A **System.Web.UI.WebControls.TableCell** object that represents the cell to reset. The column number where the cell is located. One of the **System.Web.UI.WebControls.ListItemType** values.

Button class (System.Web.UI.WebControls)

TrackViewState

Description

Displays a push button control on the Web page.

Use the **System.Web.UI.WebControls.Button** control to create a push button on the Web page. You can create either a **submit** button or a **command** button.

Button

Example Syntax:

TrackViewState

[C#] public Button();

[C++] public: Button();

[VB] Public Sub New()

[JScript] public function Button();

Description

Initializes a new instance of the **System.Web.UI.WebControls.Button** class.

Use this constructor to create and initialize a new instance of the **System.Web.UI.WebControls.Button** class.

AccessKey

Attributes

BackColor

BorderColor

BorderStyle

BorderWidth

CausesValidation

TrackViewState

Description

Gets or sets a value indicating whether validation is performed when the **System.Web.UI.WebControls.Button** control is clicked.

By default, page validation is performed when a **System.Web.UI.WebControls.Button** control is clicked. Page validation determines whether the input controls associated with a validation control on the page all pass the validation rules specified by the validation control.

ChildControlsCreated

ClientID

CommandArgument

TrackViewState

Description

Gets or sets an optional parameter passed to the **System.Web.UI.WebControls.Button.Command** event along with the associated **System.Web.UI.WebControls.Button.CommandName** .

Use the **System.Web.UI.WebControls.Button.CommandArgument** property to specify an parameter that compliments the **System.Web.UI.WebControls.Button.CommandName** property.

CommandName

TrackViewState

[C#] public string CommandName {get; set;}

[C++] public: __property String* get_CommandName();public: __property void set_CommandName(String*);

[VB] Public Property CommandName As String

[JScript] public function get CommandName() : String;public function set CommandName(String);

Description

Gets or sets the command name associated with the **System.Web.UI.WebControls.Button** control that is passed to the **System.Web.UI.WebControls.Button.Command** event.

When you have multiple **System.Web.UI.WebControls.Button** controls on a Web page, use the **System.Web.UI.WebControls.Button.CommandName** property to specify or determine the command name associated with each **System.Web.UI.WebControls.Button** control. You can set the **System.Web.UI.WebControls.Button.CommandName** property with any string that identifies the command to perform. You can then programmatically determine the command name of the **System.Web.UI.WebControls.Button** control and perform the appropriate actions.

Context

Controls

ControlStyle

ControlStyleCreated

CssClass

Enabled

EnableViewState

Events

Font

ForeColor

HasChildViewState

Height

ID

IsTrackingViewState

NamingContainer

Page

Parent

Site

Style

TabIndex

TagKey

TagName

TemplateSourceDirectory

Text

TrackViewState

Description

Gets or sets the text caption displayed in the **System.Web.UI.WebControls.Button** control.

Use the **System.Web.UI.WebControls.Button.Text** property to specify or determine the caption to display in the **System.Web.UI.WebControls.Button** control.

ToolTip

UniqueID

ViewState

ViewStateIgnoresCase

Visible

Width

TrackViewState

Description

Occurs when the **System.Web.UI.WebControls.Button** control is clicked.

The **System.Web.UI.WebControls.Button.Click** event is raised when the **System.Web.UI.WebControls.Button** control is clicked. This event is commonly used when no command name is associated with the **System.Web.UI.WebControls.Button** control (for instance, with a **submit** button).

TrackViewState

```
[C#] public event CommandEventHandler Command;
[C++] public: __event CommandEventHandler* Command;
[VB] Public Event Command As CommandEventHandler
```

Description

Occurs when the **System.Web.UI.WebControls.Button** control is clicked.

The **System.Web.UI.WebControls.Button.Command** event is raised when the **System.Web.UI.WebControls.Button** control is clicked. This event is commonly used when a command name, such as **Sort** , is associated with the **System.Web.UI.WebControls.Button** control. This allows you to create multiple **System.Web.UI.WebControls.Button** controls on a Web page and programmatically determine which **System.Web.UI.WebControls.Button** control is clicked.

AddAttributesToRender

```
[C#] protected override void AddAttributesToRender(HtmlTextWriter writer);
[C++] protected: void AddAttributesToRender(HtmlTextWriter* writer);
[VB] Overrides Protected Sub AddAttributesToRender(ByVal writer As HtmlTextWriter)
[JScript] protected override function AddAttributesToRender(writer : HtmlTextWriter);
```

Description

Adds the attributes of the **System.Web.UI.WebControls.Button** control to the output stream for rendering on the client. An **System.Web.UI.HtmlTextWriter** that contains the output stream to render on the client.

OnClick

```
[C#] protected virtual void OnClick(EventArgs e);
[C++] protected: virtual void OnClick(EventArgs* e);
[VB] Overridable Protected Sub OnClick(ByVal e As EventArgs)
[JScript] protected function OnClick(e : EventArgs);
```

Description

Raises the **System.Web.UI.WebControls.Button.Click** event of the **System.Web.UI.WebControls.Button** control.

The **System.Web.UI.WebControls.Button.Click** event is raised when the **System.Web.UI.WebControls.Button** control is clicked. This event is commonly used when no command name is associated with the **System.Web.UI.WebControls.Button** control (for instance, with a **submit** button). A **System.EventArgs** that contains the event data.

OnCommand

```
[C#] protected virtual void OnCommand(CommandEventArgs e);
[C++] protected: virtual void OnCommand(CommandEventArgs* e);
[VB] Overridable Protected Sub OnCommand(ByVal e As CommandEventArgs)
[JScript] protected function OnCommand(e : CommandEventArgs);
```

Description

Raises the **System.Web.UI.WebControls.Button.Command** event of the **System.Web.UI.WebControls.Button** control.

The **System.Web.UI.WebControls.Button.Command** event is raised when the **System.Web.UI.WebControls.Button** control is clicked. This event is commonly used when a command name, such as **Sort** , is associated with the **System.Web.UI.WebControls.Button** control. This allows you to create multiple **System.Web.UI.WebControls.Button** controls on a Web page and programmatically determine which **System.Web.UI.WebControls.Button** control is clicked. A **System.Web.UI.WebControls.CommandEventArgs** that contains the event data.

RenderContents

```
[C#] protected override void RenderContents(HtmlTextWriter writer);
[C++] protected: void RenderContents(HtmlTextWriter* writer);
```

[VB] Overrides Protected Sub RenderContents(ByVal writer As HtmlTextWriter)

[JScript] protected override function RenderContents(writer : HtmlTextWriter);

Description

IPostBackEventHandler.RaisePostBackEvent

[C#] void IPostBackEventHandler.RaisePostBackEvent(string eventArgument);

[C++] void IPostBackEventHandler::RaisePostBackEvent(String* eventArgument);

[VB] Sub RaisePostBackEvent(ByVal eventArgument As String) Implements IPostBackEventHandler.RaisePostBackEvent

[JScript] function IPostBackEventHandler.RaisePostBackEvent(eventArgument : String);

ButtonColumn class (System.Web.UI.WebControls)

TrackViewState

Description

A column type for the **System.Web.UI.WebControls.DataGrid** control that contains a user-defined command button, such as **Add** or **Remove** , that corresponds with each row in the column.

Use the **System.Web.UI.WebControls.ButtonColumn** column type in a **System.Web.UI.WebControls.DataGrid** control to create a command button that corresponds with each row in the **System.Web.UI.WebControls.DataGrid** control. Specify the caption displayed in the command buttons by setting the **System.Web.UI.WebControls.ButtonColumn.Text** property.

ButtonColumn

Example Syntax:

TrackViewState

[C#] public ButtonColumn();

[C++] public: ButtonColumn();

[VB] Public Sub New()

[JScript] public function ButtonColumn();

Description

Initializes a new instance of the **System.Web.UI.WebControls.ButtonColumn** class.

Use this constructor to create and initialize a new instance of the **System.Web.UI.WebControls.ButtonColumn** class.

ButtonType

TrackViewState

[C#] public virtual ButtonColumnType ButtonType {get; set;}

[C++] public: __property virtual ButtonColumnType get_ButtonType();public: __property virtual void set_ButtonType(ButtonColumnType);

[VB] Overridable Public Property ButtonType As ButtonColumnType

[JScript] public function get ButtonType() : ButtonColumnType;public function set ButtonType(ButtonColumnType);

Description

Gets or sets the type of button to display in the **System.Web.UI.WebControls.ButtonColumn** column.

Use this property to specify whether the buttons in the column are displayed as link or push buttons. Clicking on the command buttons in the column raises the **System.Web.UI.WebControls.DataGrid.ItemCommand** event. You can programmatically control the action performed when the command button is clicked by providing an event handler for the **System.Web.UI.WebControls.DataGrid.ItemCommand** event.

CommandName

TrackViewState

[C#] public virtual string CommandName {get; set;}

[C++] public: __property virtual String* get_CommandName();public: __property virtual void set_CommandName(String*);

[VB] Overridable Public Property CommandName As String

[JScript] public function get CommandName() : String;public function set CommandName(String);

Description

Gets or sets a string that represents the command to perform when a button in the **System.Web.UI.WebControls.ButtonColumn** is clicked.

Use the **System.Web.UI.WebControls.ButtonColumn.CommandName** property to associate a command name, such as **Add** or **Remove** , with a button.

You can set the **System.Web.UI.WebControls.ButtonColumn.CommandName** property to any string that identifies the action to perform when the command button is clicked. You can then programmatically determine the command name in the event handler for the **System.Web.UI.WebControls.DataGrid.ItemCommand** event and perform the appropriate actions.

DataTextField

TrackViewState

[C#] public virtual string DataTextField {get; set;}

[C++] public: __property virtual String* get_DataTextField();public: __property virtual void set_DataTextField(String*);

[VB] Overridable Public Property DataTextField As String

[JScript] public function get DataTextField() : String;public function set DataTextField(String);

Description

Gets or sets the field name from a data source to bind to the **System.Web.UI.WebControls.ButtonColumn** .

Use the **System.Web.UI.WebControls.ButtonColumn.DataTextField** property to specify the field name from the data source to bind to the **System.Web.UI.WebControls.ButtonColumn.Text** property of the buttons in the **System.Web.UI.WebControls.ButtonColumn** .

DataTextFormatString

TrackViewState

[C#] public virtual string DataTextFormatString {get; set;}

[C++] public: __property virtual String* get_DataTextFormatString();public: __property virtual void set_DataTextFormatString(String*);

[VB] Overridable Public Property DataTextFormatString As String

[JScript] public function get DataTextFormatString() : String;public function set DataTextFormatString(String);

Description

Gets or sets the string that specifies the display format for the caption in each command button.

Use the **System.Web.UI.WebControls.ButtonColumn.DataTextFormatString** property to provide a custom display format for the caption of the command buttons in the column.

DesignMode

FooterStyle

FooterText

HeaderImageUrl

HeaderStyle

HeaderText

IsTrackingViewState

ItemStyle

Owner

SortExpression

Text

TrackViewState

Description

Gets or sets the caption displayed in the command buttons of the **System.Web.UI.WebControls.ButtonColumn** .

Use the **System.Web.UI.WebControls.ButtonColumn.Text** property to specify or determine the caption displayed in the command buttons of the **System.Web.UI.WebControls.ButtonColumn** .

ViewState

Visible

FormatDataTextValue

[C#] protected virtual string FormatDataTextValue(object dataTextValue);

[C++] protected: virtual String* FormatDataTextValue(Object* dataTextValue);

[VB] Overridable Protected Function FormatDataTextValue(ByVal dataTextValue As Object) As String

[JScript] protected function FormatDataTextValue(dataTextValue : Object) : String;

Description

Converts the specified value to the format indicated by the **System.Web.UI.WebControls.ButtonColumn.DataTextFormatString** property.

Return Value: The specified value converted to the format indicated by the **System.Web.UI.WebControls.ButtonColumn.DataTextFormatString** property.

Use the **System.Web.UI.WebControls.ButtonColumn.FormatDataTextValue(System.Object)** method to convert the specified value to the format indicated by the **System.Web.UI.WebControls.ButtonColumn.DataTextFormatString** property. The value to format.

Initialize

[C#] public override void Initialize();

[C++] public: void Initialize();

[VB] Overrides Public Sub Initialize()

[JScript] public override function Initialize();

Description

Resets the **System.Web.UI.WebControls.ButtonColumn** to its initial state.

Use the **System.Web.UI.WebControls.ButtonColumn.Initialize** method to reset the **System.Web.UI.WebControls.ButtonColumn** to its initial state.

InitializeCell

[C#] public override void InitializeCell(TableCell cell, int columnIndex, ListItemType itemType);

[C++] public: void InitializeCell(TableCell* cell, int columnIndex, ListItemType

itemType);

[VB] Overrides Public Sub InitializeCell(ByVal cell As TableCell, ByVal columnIndex As Integer, ByVal itemType As ListItemType)

[JScript] public override function InitializeCell(cell : TableCell, columnIndex : int, itemType : ListItemType);

Description

Initializes a cell in the **System.Web.UI.WebControls.ButtonColumn** to its initial state.

The **System.Web.UI.WebControls.ButtonColumn.InitializeCell(System.Web.UI.WebControls.TableCell,System.Int32,System.Web.UI.WebControls.ListItemType)** method resets the specified cell in the **System.Web.UI.WebControls.ButtonColumn** to its initial state. A **System.Web.UI.WebControls.TableCell** object that represents the cell to reset. The column number where the cell is located. One of the **System.Web.UI.WebControls.ListItemType** values.

ButtonColumnType enumeration (System.Web.UI.WebControls)

TrackViewState

Description

Specifies the button type for the **System.Web.UI.WebControls.ButtonColumn** object.

The **System.Web.UI.WebControls.ButtonColumnType** enumeration represents the button styles for the **System.Web.UI.WebControls.ButtonColumn** object.

TrackViewState

[C#] public const ButtonColumnType LinkButton;

[C++] public: const ButtonColumnType LinkButton;

[VB] Public Const LinkButton As ButtonColumnType

[JScript] public var LinkButton : ButtonColumnType;

Description

A column of hyperlink style buttons.

TrackViewState

[C#] public const ButtonColumnType PushButton;

[C++] public: const ButtonColumnType PushButton;

[VB] Public Const PushButton As ButtonColumnType

[JScript] public var PushButton : ButtonColumnType;

Description

A column of push buttons.

Calendar class (System.Web.UI.WebControls)

ToString

Description

Displays a single month calendar that allows the user to select dates and move to the next or previous month.

Use the **System.Web.UI.WebControls.Calendar** control to display a single month of a calendar on a Web page. The control allows you to select dates and move to the next or previous month. The **System.Web.UI.WebControls.Calendar** control supports all of the **System.Globalization.Calendar** types in the **System.Globalization** namespace. Apart from the Gregorian calendar, this also includes calendars that use different year and month systems, such as the Hjiri calendar.

Calendar

Example Syntax:

ToString

[C#] public Calendar();

[C++] public: Calendar();

[VB] Public Sub New()

[JScript] public function Calendar();

Description

Initializes a new instance of the **System.Web.UI.WebControls.Calendar** class.

Use this constructor to create and initialize a new instance of the **System.Web.UI.WebControls.Calendar** class.

AccessKey

Attributes

BackColor

BorderColor

BorderStyle

BorderWidth

CellPadding

ToString

Description

Gets or sets the amount of space between the contents of a cell and the cell's border.

Use this property to control the spacing between the contents of a cell and the cell's border. The padding amount specified is added to all four sides of a cell. Individual cell sizes cannot be specified.

CellSpacing

ToString

[C#] public int CellSpacing {get; set;}

[C++] public: __property int get_CellSpacing();public: __property void set_CellSpacing(int);

[VB] Public Property CellSpacing As Integer

[JScript] public function get CellSpacing() : int;public function set CellSpacing(int);

Description

Gets or sets the amount of space between cells.

Use this property to control the spacing between individual cells in the calendar. This spacing is applied both vertically and horizontally.

ChildControlsCreated

ClientID

Context

Controls

ControlStyle

ControlStyleCreated

CssClass

DayHeaderStyle

ToString

Description

Gets the style properties for the section that displays the day of the week.

Use this property to specify the style for the section that displays the days of the week. For additional information on the different style properties that can be controlled, see **System.Web.UI.WebControls.TableItemStyle** .

DayNameFormat

ToString

[C#] public DayNameFormat DayNameFormat {get; set;}

[C++] public: __property DayNameFormat get_DayNameFormat();public: __property void set_DayNameFormat(DayNameFormat);

[VB] Public Property DayNameFormat As DayNameFormat

[JScript] public function get DayNameFormat() : DayNameFormat;public function set DayNameFormat(DayNameFormat);

Description

Gets or sets the name format of days of the week.

Use the **System.Web.UI.WebControls.Calendar.DayNameFormat** property to specify the name format for the days of the week. This property is set with one of the **System.Web.UI.WebControls.DayNameFormat** enumeration values. You can specify whether the days of the week are displayed as the full name, short (abbreviated) name, first letter of the day, or first two letters of the day.

DayStyle

ToString

[C#] public TableItemStyle DayStyle {get;}

[C++] public: __property TableItemStyle* get_DayStyle();

[VB] Public ReadOnly Property DayStyle As TableItemStyle

[JScript] public function get DayStyle() : TableItemStyle;

Description

Gets the style properties for the days in the displayed month.

Use this property to specify the style for the days in the displayed month.

Enabled

EnableViewState

Events

FirstDayOfWeek

ToString

Description

Gets or sets the day of the week to display in the first day column of the **System.Web.UI.WebControls.Calendar** control.

Use the **System.Web.UI.WebControls.Calendar.FirstDayOfWeek** property to specify the day of the week to display in the first day column of the **System.Web.UI.WebControls.Calendar** control. This property is set with one of the **System.Web.UI.WebControls.FirstDayOfWeek** enumeration values. You can specify any day of the week or **FirstDayOfWeek.Default** , which indicates that the date is determined by the system settings.

Font

ForeColor

HasChildViewState

Height

ID

IsTrackingViewState

NamingContainer

NextMonthText

ToString

Description

Gets or sets the text displayed for the next month navigation control.

Use the **System.Web.UI.WebControls.Calendar.NextMonthText** property to provide custom text for the next month navigation control. This property is commonly used along with the **System.Web.UI.WebControls.Calendar.PrevMonthText** property to provide a custom set of navigation controls.

NextPrevFormat

ToString

[C#] public NextPrevFormat NextPrevFormat {get; set;}

[C++] public: __property NextPrevFormat get_NextPrevFormat();public: __property void set_NextPrevFormat(NextPrevFormat);

[VB] Public Property NextPrevFormat As NextPrevFormat

[JScript] public function get NextPrevFormat() : NextPrevFormat;public function set NextPrevFormat(NextPrevFormat);

Description

Gets or sets the format of the next and previous month navigation elements in the title section of the **System.Web.UI.WebControls.Calendar** control.

Use the **System.Web.UI.WebControls.Calendar.NextPrevFormat** property to specify the format for the next and previous month navigation elements on the **System.Web.UI.WebControls.Calendar** control. This property is set with one of the **System.Web.UI.WebControls.NextPrevFormat** enumeration values. You can specify whether the text for the navigation controls is displayed as the full month name, the short (abbreviated) month name, or custom text.

NextPrevStyle

ToString

```
[C#] public TableItemStyle NextPrevStyle {get;}
[C++] public: __property TableItemStyle* get_NextPrevStyle();
[VB] Public ReadOnly Property NextPrevStyle As TableItemStyle
[JScript] public function get NextPrevStyle() : TableItemStyle;
```

Description

Gets the style properties for the next and previous month navigation elements.

Use this property to specify the style for the next and previous month navigation elements. For additional information on the different style properties that can be controlled, see **System.Web.UI.WebControls.TableItemStyle** .

OtherMonthDayStyle

ToString

```
[C#] public TableItemStyle OtherMonthDayStyle {get;}
```

```
[C++] public: __property TableItemStyle* get_OtherMonthDayStyle();
[VB] Public ReadOnly Property OtherMonthDayStyle As TableItemStyle
[JScript] public function get OtherMonthDayStyle() : TableItemStyle;
```

Description

Gets the style properties for the days on the **System.Web.UI.WebControls.Calendar** control that are not in the displayed month.

Use this property to specify the style for the days on the **System.Web.UI.WebControls.Calendar** control that are not in the displayed month. If the **System.Web.UI.WebControls.Calendar.OtherMonthDayStyle** property is not set, the style specified in the **System.Web.UI.WebControls.Calendar.DayStyle** property is used.

Page

Parent

PrevMonthText

ToString

Description

Gets or sets the text displayed for the previous month navigation control.

Use the **System.Web.UI.WebControls.Calendar.PrevMonthText** property to provide custom text for the previous month navigation control. This property is commonly used along with the

System.Web.UI.WebControls.Calendar.NextMonthText property to provide a custom set of navigation controls.

SelectedDate

ToString

[C#] public DateTime SelectedDate {get; set;}

[C++] public: __property DateTime get_SelectedDate();public: __property void set_SelectedDate(DateTime);

[VB] Public Property SelectedDate As DateTime

[JScript] public function get SelectedDate() : DateTime;public function set SelectedDate(DateTime);

Description

Gets or sets the selected date.

Use the **System.Web.UI.WebControls.Calendar.SelectedDate** property to determine the selected date on the **System.Web.UI.WebControls.Calendar** control. The **System.Web.UI.WebControls.Calendar.SelectedDate** property is typically used when the **System.Web.UI.WebControls.Calendar.SelectionMode** property is set to **CalendarSelectionMode.Day** . This setting only allows a single date selection from the **System.Web.UI.WebControls.Calendar** control.

SelectedDates

ToString

[C#] public SelectedDatesCollection SelectedDates {get;}

[C++] public: __property SelectedDatesCollection* get_SelectedDates();

[VB] Public ReadOnly Property SelectedDates As SelectedDatesCollection

[JScript] public function get SelectedDates() : SelectedDatesCollection;

Description

Gets a collection of **System.DateTime** objects that represent the selected dates on the **System.Web.UI.WebControls.Calendar** control.

Use the **System.Web.UI.WebControls.Calendar.SelectedDates** collection to determine the currently selected dates on the **System.Web.UI.WebControls.Calendar** control. This property is typically used when the **System.Web.UI.WebControls.Calendar.SelectionMode** property is set to **CalendarSelectionMode.DayWeek** or **CalendarSelectionMode.DayWeekMonth** . These settings allow you to select multiple dates from the **System.Web.UI.WebControls.Calendar** control by week or month.

SelectedDayStyle

ToString

[C#] public TableItemStyle SelectedDayStyle {get;}

[C++] public: __property TableItemStyle* get_SelectedDayStyle();

[VB] Public ReadOnly Property SelectedDayStyle As TableItemStyle

[JScript] public function get SelectedDayStyle() : TableItemStyle;

Description

Gets the style properties for the selected dates.

Use this property to specify the style for the selected dates on the **System.Web.UI.WebControls.Calendar** control. If the **System.Web.UI.WebControls.Calendar.SelectedDayStyle** property is not set, the style specified in the **System.Web.UI.WebControls.Calendar.DayStyle** property is used.

SelectionMode

ToString

```
[C#] public CalendarSelectionMode SelectionMode {get; set;}
[C++] public: __property CalendarSelectionMode get_SelectionMode();public:
__property void set_SelectionMode(CalendarSelectionMode);
[VB] Public Property SelectionMode As CalendarSelectionMode
[JScript] public function get SelectionMode() : CalendarSelectionMode;public
function set SelectionMode(CalendarSelectionMode);
```

Description

Gets or sets the date selection mode on the **System.Web.UI.WebControls.Calendar** control that specifies whether the user can select a single day, a week, or an entire month.

Use the **System.Web.UI.WebControls.Calendar.SelectionMode** property to specify the date selection mode on the **System.Web.UI.WebControls.Calendar** control. This property is set with one of the **System.Web.UI.WebControls.CalendarSelectionMode** enumeration values. You can specify whether the user can select a single day, a week, or an entire month, or you can disable date selection capability entirely.

SelectMonthText

ToString

[C#] public string SelectMonthText {get; set;}

[C++] public: __property String* get_SelectMonthText();public: __property void set_SelectMonthText(String*);

[VB] Public Property SelectMonthText As String

[JScript] public function get SelectMonthText() : String;public function set SelectMonthText(String);

Description

Gets or sets the text displayed for the month selection element in the selector column.

Use the **System.Web.UI.WebControls.Calendar.SelectMonthText** property to provide custom text for the month selection element in the selector column.

SelectorStyle

ToString

[C#] public TableItemStyle SelectorStyle {get;}

[C++] public: __property TableItemStyle* get_SelectorStyle();

[VB] Public ReadOnly Property SelectorStyle As TableItemStyle

[JScript] public function get SelectorStyle() : TableItemStyle;

Description

Gets the style properties for the week and month selector column.

Use this property to specify the style for the week and month selector column. For additional information on the different style properties that can be controlled, see **System.Web.UI.WebControls.TableItemStyle** .

SelectWeekText

ToString

[C#] public string SelectWeekText {get; set;}

[C++] public: __property String* get_SelectWeekText();public: __property void set_SelectWeekText(String*);

[VB] Public Property SelectWeekText As String

[JScript] public function get SelectWeekText() : String;public function set SelectWeekText(String);

Description

Gets or sets the text displayed for the week selection element in the selector column.

Use the **System.Web.UI.WebControls.Calendar.SelectWeekText** property to provide custom text for the week selection element in the selector column.

ShowDayHeader

ToString

[C#] public bool ShowDayHeader {get; set;}

[C++] public: __property bool get_ShowDayHeader();public: __property void set_ShowDayHeader(bool);

[VB] Public Property ShowDayHeader As Boolean

[JScript] public function get ShowDayHeader() : Boolean;public function set ShowDayHeader(Boolean);

Description

Gets or sets a value indicating whether the heading for the days of the week is displayed.

Use the **System.Web.UI.WebControls.Calendar.ShowDayHeader** property to specify whether the heading for the days of the week is displayed.

ShowGridLines

ToString

[C#] public bool ShowGridLines {get; set;}

[C++] public: __property bool get_ShowGridLines();public: __property void set_ShowGridLines(bool);

[VB] Public Property ShowGridLines As Boolean

[JScript] public function get ShowGridLines() : Boolean;public function set ShowGridLines(Boolean);

Description

Gets or sets a value indicating whether the days on the **System.Web.UI.WebControls.Calendar** control are separated with grid lines.

Use the **System.Web.UI.WebControls.Calendar.ShowGridLines** property to specify whether the days on the **System.Web.UI.WebControls.Calendar** control are separated with grid lines.

ShowNextPrevMonth

ToString

[C#] public bool ShowNextPrevMonth {get; set;}

[C++] public: __property bool get_ShowNextPrevMonth();public: __property void set_ShowNextPrevMonth(bool);

[VB] Public Property ShowNextPrevMonth As Boolean

[JScript] public function get ShowNextPrevMonth() : Boolean;public function set ShowNextPrevMonth(Boolean);

Description

Gets or sets a value indicating whether the **System.Web.UI.WebControls.Calendar** control displays the next and previous month navigation elements in the title section.

Use the **System.Web.UI.WebControls.Calendar.ShowNextPrevMonth** property to specify whether the next and previous month navigation elements are displayed in the title section.

ShowTitle

ToString

[C#] public bool ShowTitle {get; set;}

[C++] public: __property bool get_ShowTitle();public: __property void set_ShowTitle(bool);

[VB] Public Property ShowTitle As Boolean

[JScript] public function get ShowTitle() : Boolean;public function set ShowTitle(Boolean);

Description

Gets or sets a value indicating whether the title section is displayed.

Use the **System.Web.UI.WebControls.Calendar.ShowTitle** property to specify whether the title section is displayed.

Site

Style

TabIndex

TagKey

TagName

TemplateSourceDirectory

TitleFormat

ToString

Description

Gets or sets the title format for the title section.

Use the **System.Web.UI.WebControls.Calendar.TitleFormat** property to specify the format for the title section. This property is set with one of the **System.Web.UI.WebControls.TitleFormat** enumeration values. You can specify whether the title displays as the month or both the month and the year.

TitleStyle

ToString

[C#] public TableItemStyle TitleStyle {get;}

[C++] public: __property TableItemStyle* get_TitleStyle();

[VB] Public ReadOnly Property TitleStyle As TableItemStyle

[JScript] public function get TitleStyle() : TableItemStyle;

Description

Gets the style properties of the title heading for the **System.Web.UI.WebControls.Calendar** control.

Use this property to specify the style for the title heading of the **System.Web.UI.WebControls.Calendar** control. For additional information on the different style properties that can be controlled, see **System.Web.UI.WebControls.TableItemStyle** .

TodayDayStyle

ToString

[C#] public TableItemStyle TodayDayStyle {get;}

[C++] public: __property TableItemStyle* get_TodayDayStyle();

[VB] Public ReadOnly Property TodayDayStyle As TableItemStyle

[JScript] public function get TodayDayStyle() : TableItemStyle;

Description

Gets the style properties for today's date on the **System.Web.UI.WebControls.Calendar** control.

Use this property to specify the style for today's date on the **System.Web.UI.WebControls.Calendar** control. If the **System.Web.UI.WebControls.Calendar.TodayDayStyle** property is not set, the style specified in the **System.Web.UI.WebControls.Calendar.DayStyle** property is used.

TodaysDate

ToString

[C#] public DateTime TodaysDate {get; set;}

[C++] public: __property DateTime get_TodaysDate();public: __property void set_TodaysDate(DateTime);

[VB] Public Property TodaysDate As DateTime

[JScript] public function get TodaysDate() : DateTime;public function set TodaysDate(DateTime);

Description

Gets or sets the value for today's date.

Use the **System.Web.UI.WebControls.Calendar.TodaysDate** property to determine today's date. You can also use this property to programmatically set the value for today's date on the **System.Web.UI.WebControls.Calendar** control. This property is set using a **System.DateTime** object.

ToolTip

UniqueID

ViewState

ViewStateIgnoresCase

Visible

VisibleDate

ToString

Description

Gets or sets the date that specifies the month to display on the **System.Web.UI.WebControls.Calendar** control.

Use the **System.Web.UI.WebControls.Calendar.VisibleDate** property to programmatically set the month to display on the **System.Web.UI.WebControls.Calendar** control. The specified date can be any date in the month you want to display, although it is common to use the first date in the month. This property is set using a **System.DateTime** object.

WeekendDayStyle

ToString

[C#] public TableItemStyle WeekendDayStyle {get;}

[C++] public: __property TableItemStyle* get_WeekendDayStyle();

[VB] Public ReadOnly Property WeekendDayStyle As TableItemStyle

[JScript] public function get WeekendDayStyle() : TableItemStyle;

Description

Gets the style properties for the weekend dates on the **System.Web.UI.WebControls.Calendar** control.

Use this property to specify the style for the weekend dates on the **System.Web.UI.WebControls.Calendar** control. If the **System.Web.UI.WebControls.Calendar.WeekendDayStyle** property is not set, the style specified in the **System.Web.UI.WebControls.Calendar.DayStyle** property is used.

Width

ToString

Description

Occurs when each day is created in the control hierarchy for the **System.Web.UI.WebControls.Calendar** control.

This event is raised when each day is created in the control hierarchy for the **System.Web.UI.WebControls.Calendar** control.

ToString

Description

Occurs when the user selects a day, a week, or an entire month by clicking the date selector controls.

This event is raised when the user selects a day, a week, or an entire month by clicking the date selector controls.

ToString

Description

Occurs when the user clicks on the next or previous month navigation controls on the title heading.

This event is raised when the user clicks on the next or previous month navigation elements on the title heading.

CreateControlCollection

[C#] protected override ControlCollection CreateControlCollection();

[C++] protected: ControlCollection* CreateControlCollection();

[VB] Overrides Protected Function CreateControlCollection() As ControlCollection

[JScript] protected override function CreateControlCollection() : ControlCollection;

Description

HasWeekSelectors

[C#] protected bool HasWeekSelectors(CalendarSelectionMode selectionMode);

[C++] protected: bool HasWeekSelectors(CalendarSelectionMode selectionMode);

[VB] Protected Function HasWeekSelectors(ByVal selectionMode As CalendarSelectionMode) As Boolean

[JScript] protected function HasWeekSelectors(selectionMode : CalendarSelectionMode) : Boolean;

Description

Determines if a **System.Web.UI.WebControls.CalendarSelectionMode** contains week selectors.

Return Value: **true** if the **System.Web.UI.WebControls.CalendarSelectionMode** contains week selectors; otherwise **false** .

System.Web.UI.WebControls.CalendarSelectionMode values of **DayWeek** and **DayWeekMonth** contains week selectors. One of the **System.Web.UI.WebControls.CalendarSelectionMode** values.

LoadViewState

[C#] protected override void LoadViewState(object savedState);

[C++] protected: void LoadViewState(Object* savedState);

[VB] Overrides Protected Sub LoadViewState(ByVal savedState As Object)

[JScript] protected override function LoadViewState(savedState : Object);

Description

Loads a saved state of the **System.Web.UI.WebControls.Calendar** . An **System.Object** that contains the saved condition of the **System.Web.UI.WebControls.Calendar**.

OnDayRender

[C#] protected virtual void OnDayRender(TableCell cell, CalendarDay day);

[C++] protected: virtual void OnDayRender(TableCell* cell, CalendarDay* day);

[VB] Overridable Protected Sub OnDayRender(ByVal cell As TableCell, ByVal day As CalendarDay)

[JScript] protected function OnDayRender(cell : TableCell, day : CalendarDay);

Description

Raises the **System.Web.UI.WebControls.Calendar.DayRender** event of the **System.Web.UI.WebControls.Calendar** control and allows you to provide a custom handler for the **System.Web.UI.WebControls.Calendar.DayRender** event.

Although databinding is not supported for the **System.Web.UI.WebControls.Calendar** control, it is possible modify the content and formatting of the individual date cells. Before the **System.Web.UI.WebControls.Calendar** control is displayed on the Web page, it creates and assembles the components that make up the control. The **System.Web.UI.WebControls.Calendar.DayRender** event is raised when each date cell in **System.Web.UI.WebControls.Calendar** control is created. You can control the contents and formatting of a date cell when it is created by providing code in the event handler for the **System.Web.UI.WebControls.Calendar.DayRender** event. A **System.Web.UI.WebControls.TableCell** that contains information about the cell to render. A **System.Web.UI.WebControls.CalendarDay** that contains information about the day to render.

OnSelectionChanged

[C#] protected virtual void OnSelectionChanged();

[C++] protected: virtual void OnSelectionChanged();

[VB] Overridable Protected Sub OnSelectionChanged()

[JScript] protected function OnSelectionChanged();

Description

Raises the **System.Web.UI.WebControls.Calendar.SelectionChanged** event of the **System.Web.UI.WebControls.Calendar** control and allows you to provide a custom handler for the **System.Web.UI.WebControls.Calendar.SelectionChanged** event.

The **System.Web.UI.WebControls.Calendar.SelectionChanged** event is raised when the user selects a day, a week, or an entire month by clicking the date selector controls.

OnVisibleMonthChanged

[C#] protected virtual void OnVisibleMonthChanged(DateTime newDate, DateTime previousDate);

[C++] protected: virtual void OnVisibleMonthChanged(DateTime newDate, DateTime previousDate);

[VB] Overridable Protected Sub OnVisibleMonthChanged(ByVal newDate As DateTime, ByVal previousDate As DateTime)

[JScript] protected function OnVisibleMonthChanged(newDate : DateTime, previousDate : DateTime);

Description

Raises the **System.Web.UI.WebControls.Calendar.VisibleMonthChanged** event of the **System.Web.UI.WebControls.Calendar** control and allows you to provide a custom handler for the **System.Web.UI.WebControls.Calendar.VisibleMonthChanged** event.

The **System.Web.UI.WebControls.Calendar.VisibleMonthChanged** event is raised when the user clicks on the next or previous month navigation elements on the title section. A **System.DateTime** object that represents the month currently displayed in the **System.Web.UI.WebControls.Calendar** control. A **System.DateTime** object that represents the previous month displayed by the **System.Web.UI.WebControls.Calendar** control.

Render

```
[C#] protected override void Render(HtmlTextWriter writer);
[C++] protected: void Render(HtmlTextWriter* writer);
[VB] Overrides Protected Sub Render(ByVal writer As HtmlTextWriter)
[JScript] protected override function Render(writer : HtmlTextWriter);
```

Description

Displays the **System.Web.UI.WebControls.Calendar** control on the client. An **System.Web.UI.HtmlTextWriter** that contains the output stream for rendering on the client.

SaveViewState

[C#] protected override object SaveViewState();

[C++] protected: Object* SaveViewState();

[VB] Overrides Protected Function SaveViewState() As Object

[JScript] protected override function SaveViewState() : Object;

Description

Stores the state of the **System.Web.UI.WebControls.Calendar** .

Return Value: An object that contains the saved state of the **System.Web.UI.WebControls.Calendar** .

IPostBackEventHandler.RaisePostBackEvent

[C#] void IPostBackEventHandler.RaisePostBackEvent(string eventArgument);

[C++] void IPostBackEventHandler::RaisePostBackEvent(String* eventArgument);

[VB] Sub RaisePostBackEvent(ByVal eventArgument As String) Implements IPostBackEventHandler.RaisePostBackEvent

[JScript] function IPostBackEventHandler.RaisePostBackEvent(eventArgument : String);

TrackViewState

[C#] protected override void TrackViewState();

[C++] protected: void TrackViewState();

[VB] Overrides Protected Sub TrackViewState()

[JScript] protected override function TrackViewState();

Description

Marks the starting point to begin tracking and saving changes to the control as part of the control viewstate.

CalendarDay class (System.Web.UI.WebControls)

TrackViewState

Description

Represents a date in the **System.Web.UI.WebControls.Calendar** control.

A **System.Web.UI.WebControls.CalendarDay** object represents a date in the **System.Web.UI.WebControls.Calendar** control. You can use this class in the **System.Web.UI.WebControls.Calendar.DayRender** event handler to programmatically access the properties of a date as it is rendered on the **System.Web.UI.WebControls.Calendar** control. This allows you to determine the properties of the day (such as whether the date is selectable, selected, today's date, or a weekend date) and programmatically control the appearance or behavior of the day.

CalendarDay

Example Syntax:

TrackViewState

[C#] public CalendarDay(DateTime date, bool isWeekend, bool isToday, bool isSelected, bool isOtherMonth, string dayNumberText);

[C++] public: CalendarDay(DateTime date, bool isWeekend, bool isToday, bool isSelected, bool isOtherMonth, String* dayNumberText);

[VB] Public Sub New(ByVal date As DateTime, ByVal isWeekend As Boolean, ByVal isToday As Boolean, ByVal isSelected As Boolean, ByVal isOtherMonth As Boolean, ByVal dayNumberText As String)

[JScript] public function CalendarDay(date : DateTime, isWeekend : Boolean, isToday : Boolean, isSelected : Boolean, isOtherMonth : Boolean, dayNumberText : String);

Description

Initializes a new instance of the **System.Web.UI.WebControls.CalendarDay** class.

The following table shows initial property values for an instance of **System.Web.UI.WebControls.CalendarDay** . A **System.DateTime** object that contains the date represented by an instance of this class. **true** to indicate that the date represented by an instance of this class is either a Saturday or a Sunday; otherwise, **false**. **true** to indicate that the date represented by an instance of this class is the current date; otherwise, **false**. **true** to indicate that the date represented by an instance of this class is selected on the **System.Web.UI.WebControls.Calendar** control; otherwise, **false**. **true** to indicate that the date represented by an instance of this class is in a month other than the displayed month on the **System.Web.UI.WebControls.Calendar** control; otherwise, **false**. The day number for the date represented by this class.

Date

TrackViewState

```
[C#] public DateTime Date {get;}
[C++] public: __property DateTime get_Date();
[VB] Public ReadOnly Property Date As DateTime
[JScript] public function get Date() : DateTime;
```

Description

Gets the date represented by an instance of this class. This property is read-only.

Use the **System.Web.UI.WebControls.CalendarDay.Date** property to programmatically determine the date represented by an instance of this class.

DayNumberText

TrackViewState

```
[C#] public string DayNumberText {get;}
[C++] public: __property String* get_DayNumberText();
[VB] Public ReadOnly Property DayNumberText As String
[JScript] public function get DayNumberText() : String;
```

Description

Gets the string equivalent of the day number for the date represented by an instance of the **System.Web.UI.WebControls.CalendarDay** class. This property is read-only.

Use the **System.Web.UI.WebControls.CalendarDay.DayNumberText** property to determine the string equivalent of the day number for the date represented by an instance of this class. This allows you to programmatically control the appearance or behavior of the day, based on this value.

IsOtherMonth

TrackViewState

[C#] public bool IsOtherMonth {get;}

[C++] public: __property bool get_IsOtherMonth();

[VB] Public ReadOnly Property IsOtherMonth As Boolean

[JScript] public function get IsOtherMonth() : Boolean;

Description

Gets a value that indicates whether the date represented by an instance of this class is in a month other than the month displayed in the **System.Web.UI.WebControls.Calendar** control. This property is read-only.

Use the **System.Web.UI.WebControls.CalendarDay.IsOtherMonth** property to programmatically determine whether the date represented by an instance of this class is in a month other than the month displayed in the **System.Web.UI.WebControls.Calendar** control. This allows you to programmatically control the appearance or behavior of the day based on this value.

IsSelectable

TrackViewState

[C#] public bool IsSelectable {get; set;}

[C++] public: __property bool get_IsSelectable();public: __property void set_IsSelectable(bool);

[VB] Public Property IsSelectable As Boolean

[JScript] public function get IsSelectable() : Boolean;public function set IsSelectable(Boolean);

Description

Gets or sets a value that indicates whether the date represented by an instance of this class can be selected in the **System.Web.UI.WebControls.Calendar** control.

Use the **System.Web.UI.WebControls.CalendarDay.IsSelectable** property to specify or determine whether the date represented by an instance of this class can be selected in the **System.Web.UI.WebControls.Calendar** control. This allows you to programmatically control the appearance behavior of the day, based on this value.

IsSelected

TrackViewState

[C#] public bool IsSelected {get;}

[C++] public: __property bool get_IsSelected();

[VB] Public ReadOnly Property IsSelected As Boolean

[JScript] public function get IsSelected() : Boolean;

Description

Gets a value that indicates whether the date represented by an instance of this class is selected in the **System.Web.UI.WebControls.Calendar** control. This property is read-only.

Use the **System.Web.UI.WebControls.CalendarDay.IsSelected** property to programmatically determine whether the date represented by an instance of this class is selected in the **System.Web.UI.WebControls.Calendar** control. This allows you to programmatically control the appearance or behavior of the day, based on this value.

IsToday

TrackViewState

```
[C#] public bool IsToday {get;}
[C++] public: __property bool get_IsToday();
[VB] Public ReadOnly Property IsToday As Boolean
[JScript] public function get IsToday() : Boolean;
```

Description

Gets a value that indicates whether the date represented by an instance of this class is the same date specified by the **System.Web.UI.WebControls.Calendar.TodaysDate** property of the **System.Web.UI.WebControls.Calendar** control. This property is read-only.

Use the **System.Web.UI.WebControls.CalendarDay.IsToday** property to programmatically determine whether the date represented by an instance of this class is the same date specified by the **System.Web.UI.WebControls.Calendar.TodaysDate** property of the

System.Web.UI.WebControls.Calendar control. This allows you to programmatically control the appearance or behavior of the day, based on this value.

IsWeekend

TrackViewState

```
[C#] public bool IsWeekend {get;}
[C++] public: __property bool get_IsWeekend();
[VB] Public ReadOnly Property IsWeekend As Boolean
[JScript] public function get IsWeekend() : Boolean;
```

Description

Gets a value that indicates whether the date represented by an instance of this class is a either Saturday or Sunday. This property is read-only.

Use the **System.Web.UI.WebControls.CalendarDay.IsWeekend** property to programmatically determine whether the date represented by an instance of this class is either a Saturday or a Sunday. This allows you to programmatically control the appearance or behavior of the day, based on this value.

CalendarSelectionMode enumeration (System.Web.UI.WebControls)

ToString

Description

Specifies the date selection mode of the **System.Web.UI.WebControls.Calendar** control.

The **System.Web.UI.WebControls.CalendarSelectionMode** enumeration represents the date selection modes of the **System.Web.UI.WebControls.Calendar** control.

ToString

```
[C#] public const CalendarSelectionMode Day;
[C++] public: const CalendarSelectionMode Day;
[VB] Public Const Day As CalendarSelectionMode
[JScript] public var Day : CalendarSelectionMode;
```

Description

A single date can be selected on the **System.Web.UI.WebControls.Calendar** control.

ToString

```
[C#] public const CalendarSelectionMode DayWeek;
[C++] public: const CalendarSelectionMode DayWeek;
[VB] Public Const DayWeek As CalendarSelectionMode
[JScript] public var DayWeek : CalendarSelectionMode;
```

Description

A single day or entire week can be selected on the **System.Web.UI.WebControls.Calendar** control.

ToString

[C#] public const CalendarSelectionMode DayWeekMonth;

[C++] public: const CalendarSelectionMode DayWeekMonth;

[VB] Public Const DayWeekMonth As CalendarSelectionMode

[JScript] public var DayWeekMonth : CalendarSelectionMode;

Description

A single date, week, or entire month can be selected on the **System.Web.UI.WebControls.Calendar** control.

ToString

[C#] public const CalendarSelectionMode None;

[C++] public: const CalendarSelectionMode None;

[VB] Public Const None As CalendarSelectionMode

[JScript] public var None : CalendarSelectionMode;

Description

No dates can be selected on the **System.Web.UI.WebControls.Calendar** control.

TableRow.CellControlCollection class (System.Web.UI.WebControls)

ToString

Description

Count

IsReadOnly

IsSynchronized

Item

Owner

SyncRoot

Add

```
[C#] public override void Add(Control child);
[C++] public: void Add(Control* child);
[VB] Overrides Public Sub Add(ByVal child As Control)
[JScript] public override function Add(child : Control);
```

Description

Adds the specified **System.Web.UI.Control** object to the collection. The new control is added to the end of the array.

AddAt

```
[C#] public override void AddAt(int index, Control child);
[C++] public: void AddAt(int index, Control* child);
[VB] Overrides Public Sub AddAt(ByVal index As Integer, ByVal child As
Control)
[JScript] public override function AddAt(index : int, child : Control);
```

Description

Adds the specified **System.Web.UI.Control** object to the collection. The new control is added to the array at the specified index location. The location in the array to add the child control. The **Control** object to add to the collection.

CheckBox class (System.Web.UI.WebControls)

ToString

Description

Displays a check box that allows the user to select a **true** or **false** condition.

Use the **System.Web.UI.WebControls.CheckBox** control to allow the user to select a **true** or **false** state.

CheckBox

Example Syntax:

ToString

```
[C#] public CheckBox();
[C++] public: CheckBox();
[VB] Public Sub New()
[JScript] public function CheckBox();
```

Description

Initializes a new instance of the **System.Web.UI.WebControls.CheckBox** class.

Use this constructor to create and initialize a new instance of the **System.Web.UI.WebControls.CheckBox** class.

AccessKey

Attributes

AutoPostBack

ToString

Description

Gets or sets a value indicating whether the **System.Web.UI.WebControls.CheckBox** state automatically posts back to the server when clicked.

Use this property to specify whether the state of the **System.Web.UI.WebControls.CheckBox** control is posted back to the server when clicked.

BackColor

BorderColor

BorderStyle

BorderWidth

Checked

ToString

Description

Gets or sets a value indicating whether the **System.Web.UI.WebControls.CheckBox** control is checked.

Use this property to determine whether the **System.Web.UI.WebControls.CheckBox** control is checked. This property can also be used to programmatically set the state of the **System.Web.UI.WebControls.CheckBox** control.

ChildControlsCreated

ClientID

Context

Controls

ControlStyle .

ControlStyleCreated

CssClass

Enabled

EnableViewState

Events

Font

ForeColor

HasChildViewState

Height

ID

IsTrackingViewState

NamingContainer

Page

Parent

Site

Style

TabIndex

TagKey

TagName

TemplateSourceDirectory

Text

ToString

Description

Gets or sets the text label associated with the **System.Web.UI.WebControls.CheckBox** .

Use this property to specify the text label associated with the **System.Web.UI.WebControls.CheckBox** control. This property can also be used to programmatically get the text label associated with the **System.Web.UI.WebControls.CheckBox** control.

TextAlign

ToString

[C#] public virtual TextAlign TextAlign {get; set;}

[C++] public: __property virtual TextAlign get_TextAlign();public: __property virtual void set_TextAlign(TextAlign);

[VB] Overridable Public Property TextAlign As TextAlign

[JScript] public function get TextAlign() : TextAlign;public function set

TextAlign(TextAlign);

Description

Gets or sets the alignment of the text label associated with the **System.Web.UI.WebControls.CheckBox** control.

Use this property to specify the alignment of the text label associated with the **System.Web.UI.WebControls.CheckBox** control. You can specify whether the text label appears to the right or left of the check box. Use the **System.Web.UI.WebControls.CheckBox.Text** property to specify the label text.

ToolTip

UniqueID

ViewState

ViewStateIgnoresCase

Visible

Width

ToString

Description

Occurs when the **System.Web.UI.WebControls.CheckBox.Checked** property is changed.

The **System.Web.UI.WebControls.CheckBox.CheckedChanged** event is raised when the **System.Web.UI.WebControls.CheckBox.Checked** property is changed.

OnCheckedChanged

[C#] protected virtual void OnCheckedChanged(EventArgs e);

[C++] protected: virtual void OnCheckedChanged(EventArgs* e);

[VB] Overridable Protected Sub OnCheckedChanged(ByVal e As EventArgs)

[JScript] protected function OnCheckedChanged(e : EventArgs);

Description

Raises the **System.Web.UI.WebControls.CheckBox.CheckedChanged** event of the **System.Web.UI.WebControls.CheckBox** control. This allows you to handle the event directly.

The **System.Web.UI.WebControls.CheckBox.CheckedChanged** event is raised when the **System.Web.UI.WebControls.CheckBox.Checked** property is changed. A **System.EventArgs** that contains the event data.

OnPreRender

[C#] protected override void OnPreRender(EventArgs e);

[C++] protected: void OnPreRender(EventArgs* e);

[VB] Overrides Protected Sub OnPreRender(ByVal e As EventArgs)

[JScript] protected override function OnPreRender(e : EventArgs);

Description

Registers client script for generating postback prior to rendering on the client if **System.Web.UI.WebControls.CheckBox.AutoPostBack** is **true** .

Render

[C#] protected override void Render(HtmlTextWriter writer);

[C++] protected: void Render(HtmlTextWriter* writer);

[VB] Overrides Protected Sub Render(ByVal writer As HtmlTextWriter)

[JScript] protected override function Render(writer : HtmlTextWriter);

Description

Displays the **System.Web.UI.WebControls.CheckBox** on the client. A **System.Web.UI.HtmlTextWriter** that contains the output stream to render on the client.

IPostBackDataHandler.LoadPostData

[C#] bool IPostBackDataHandler.LoadPostData(string postDataKey, NameValueCollection postCollection);

[C++] bool IPostBackDataHandler::LoadPostData(String* postDataKey, NameValueCollection* postCollection);

[VB] Function LoadPostData(ByVal postDataKey As String, ByVal postCollection As NameValueCollection) As Boolean Implements IPostBackDataHandler.LoadPostData

[JScript] function IPostBackDataHandler.LoadPostData(postDataKey : String, postCollection : NameValueCollection) : Boolean;

IPostBackDataHandler.RaisePostDataChangedEvent

[C#] void IPostBackDataHandler.RaisePostDataChangedEvent();

[C++] void IPostBackDataHandler::RaisePostDataChangedEvent();

[VB] Sub RaisePostDataChangedEvent() Implements IPostBackDataHandler.RaisePostDataChangedEvent

[JScript] function IPostBackDataHandler.RaisePostDataChangedEvent();

CheckBoxList class (System.Web.UI.WebControls)

TrackViewState

Description

Creates a multi selection check box group that can be dynamically created by binding the control to a data source.

The **System.Web.UI.WebControls.CheckBoxList** control provides a multi selection check box group that can be dynamically generated with data binding. It contains an **System.Web.UI.WebControls.ListControl.Items** collection with members that correspond to individual items in the list. To determine which items are checked, loop through and test the **System.Web.UI.WebControls.ListItem.Selected** property of each item in the list.

CheckBoxList

Example Syntax:

TrackViewState

[C#] public CheckBoxList();

[C++] public: CheckBoxList();

[VB] Public Sub New()

[JScript] public function CheckBoxList();

Description

Initializes a new instance of the **System.Web.UI.WebControls.CheckBoxList** class.

Use this constructor to create and initialize a new instance of the **System.Web.UI.WebControls.CheckBoxList** class.

AccessKey

Attributes

AutoPostBack

BackColor

BorderColor

BorderStyle

BorderWidth

CellPadding

TrackViewState

Description

Gets or sets the distance (in pixels) between the border and contents of the cell.

Use this property to control the spacing between the contents of a cell and the cell's border in the **System.Web.UI.WebControls.CheckBoxList** control.

CellSpacing

TrackViewState

[C#] public virtual int CellSpacing {get; set;}

[C++] public: __property virtual int get_CellSpacing();public: __property virtual void set_CellSpacing(int);

[VB] Overridable Public Property CellSpacing As Integer

[JScript] public function get CellSpacing() : int;public function set CellSpacing(int);

Description

Gets or sets the distance (in pixels) between cells.

Use this property to control the spacing between individual cells in the **System.Web.UI.WebControls.CheckBoxList** control. This property is applied both vertically and horizontally.

ChildControlsCreated

ClientID

Context

Controls

ControlStyle

ControlStyleCreated

CssClass

DataMember

DataSource

DataTextField

DataTextFormatString

DataValueField

Enabled

EnableViewState

Events

Font

ForeColor

HasChildViewState

Height

ID

IsTrackingViewState

Items

NamingContainer

Page

Parent

RepeatColumns

TrackViewState

Description

Gets or sets the number of columns to display in the **System.Web.UI.WebControls.CheckBoxList** control.

Use this property to specify the number of columns that display items in the **System.Web.UI.WebControls.CheckBoxList** control. If this property is not set, the **System.Web.UI.WebControls.CheckBoxList** control displays all list items in a single column.

RepeatDirection

TrackViewState

[C#] public virtual RepeatDirection RepeatDirection {get; set;}

[C++] public: __property virtual RepeatDirection get_RepeatDirection();public: __property virtual void set_RepeatDirection(RepeatDirection);

[VB] Overridable Public Property RepeatDirection As RepeatDirection

[JScript] public function get RepeatDirection() : RepeatDirection;public function set RepeatDirection(RepeatDirection);

Description

Gets or sets a value that indicates whether the control displays vertically or horizontally.

Use this property to specify the display direction of the **System.Web.UI.WebControls.CheckBoxList** control.

RepeatLayout

TrackViewState

[C#] public virtual RepeatLayout RepeatLayout {get; set;}

[C++] public: __property virtual RepeatLayout get_RepeatLayout();public: __property virtual void set_RepeatLayout(RepeatLayout);

[VB] Overridable Public Property RepeatLayout As RepeatLayout

[JScript] public function get RepeatLayout() : RepeatLayout;public function set RepeatLayout(RepeatLayout);

Description

Gets or sets the layout of the check boxes.

Use this property to specify whether the items in the **System.Web.UI.WebControls.CheckBoxList** control are displayed in a table. If this property is set to **RepeatLayout.Table** , the items in the list are displayed in a table. If this property is set to **RepeatLayout.Flow** , the items in the list are displayed without a table structure.

SelectedIndex

SelectedItem

Site

Style

TabIndex

TagKey

TagName

TemplateSourceDirectory

TextAlign

TrackViewState

Description

Gets or sets the text alignment for the check boxes within the group.

Use this property to specify whether the text associated with the check boxes appears on the left or right of the check box. If this property is set to **TextAlign.Right** , the text is displayed to the right of the check box. If this property is set to **TextAlign.Left** , the text is displayed to the left of the check box.

ToolTip

UniqueID

ViewState

ViewStateIgnoresCase

Visible

Width

CreateControlStyle

[C#] protected override Style CreateControlStyle();

[C++] protected: Style* CreateControlStyle();

[VB] Overrides Protected Function CreateControlStyle() As Style

[JScript] protected override function CreateControlStyle() : Style;

Description

Creates a new control style object.

Return Value: A **System.Web.UI.WebControls.Style** that contains the style properties of a control.

FindControl

[C#] protected override Control FindControl(string id, int pathOffset);

[C++] protected: Control* FindControl(String* id, int pathOffset);

[VB] Overrides Protected Function FindControl(ByVal id As String, ByVal pathOffset As Integer) As Control

[JScript] protected override function FindControl(id : String, pathOffset : int) : Control;

Description

Catches post data for each **System.Web.UI.WebControls.CheckBox** in the list.

OnPreRender

[C#] protected override void OnPreRender(EventArgs e);

[C++] protected: void OnPreRender(EventArgs* e);

[VB] Overrides Protected Sub OnPreRender(ByVal e As EventArgs)

[JScript] protected override function OnPreRender(e : EventArgs);

Description

Configures the **System.Web.UI.WebControls.CheckBoxList** prior to rendering on the client.

Render

[C#] protected override void Render(HtmlTextWriter writer);

[C++] protected: void Render(HtmlTextWriter* writer);

[VB] Overrides Protected Sub Render(ByVal writer As HtmlTextWriter)

[JScript] protected override function Render(writer : HtmlTextWriter);

Description

Displays the **System.Web.UI.WebControls.CheckBoxList** on the client. A **System.Web.UI.HtmlTextWriter** that contains the output stream for rendering on the client.

IPostBackDataHandler.LoadPostData

[C#] bool IPostBackDataHandler.LoadPostData(string postDataKey, NameValueCollection postCollection);

[C++] bool IPostBackDataHandler::LoadPostData(String* postDataKey, NameValueCollection* postCollection);

[VB] Function LoadPostData(ByVal postDataKey As String, ByVal postCollection As NameValueCollection) As Boolean Implements IPostBackDataHandler.LoadPostData

[JScript] function IPostBackDataHandler.LoadPostData(postDataKey : String, postCollection : NameValueCollection) : Boolean;

IPostBackDataHandler.RaisePostDataChangedEvent

[C#] void IPostBackDataHandler.RaisePostDataChangedEvent();

[C++] void IPostBackDataHandler::RaisePostDataChangedEvent();

[VB] Sub RaisePostDataChangedEvent() Implements IPostBackDataHandler.RaisePostDataChangedEvent

[JScript] function IPostBackDataHandler.RaisePostDataChangedEvent();

IRepeatInfoUser.GetItemStyle

[C#] Style IRepeatInfoUser.GetItemStyle(ListItemType itemType, int repeatIndex);

[C++] Style* IRepeatInfoUser::GetItemStyle(ListItemType itemType, int repeatIndex);

[VB] Function GetItemStyle(ByVal itemType As ListItemType, ByVal repeatIndex As Integer) As Style Implements IRepeatInfoUser.GetItemStyle

[JScript] function IRepeatInfoUser.GetItemStyle(itemType : ListItemType, repeatIndex : int) : Style;

IRepeatInfoUser.RenderItem

[C#] void IRepeatInfoUser.RenderItem(ListItemType itemType, int repeatIndex, RepeatInfo repeatInfo, HtmlTextWriter writer);

[C++] void IRepeatInfoUser::RenderItem(ListItemType itemType, int repeatIndex, RepeatInfo* repeatInfo, HtmlTextWriter* writer);

[VB] Sub RenderItem(ByVal itemType As ListItemType, ByVal repeatIndex As Integer, ByVal repeatInfo As RepeatInfo, ByVal writer As HtmlTextWriter) Implements IRepeatInfoUser.RenderItem

[JScript] function IRepeatInfoUser.RenderItem(itemType : ListItemType, repeatIndex : int, repeatInfo : RepeatInfo, writer : HtmlTextWriter);

CommandEventArgs class (System.Web.UI.WebControls)

TrackViewState

Description

Provides data for the **Command** event.

The **Command** event is raised when a **System.Web.UI.WebControls.Button** or **System.Web.UI.WebControls.ImageButton** control is clicked.

CommandEventArgs

Example Syntax:

TrackViewState

[C#] public CommandEventArgs(CommandEventArgs e);

[C++] public: CommandEventArgs(CommandEventArgs* e);

[VB] Public Sub New(ByVal e As CommandEventArgs)

[JScript] public function CommandEventArgs(e : CommandEventArgs);

Initializes a new instance of the **System.Web.UI.WebControls.CommandEventArgs** class.

Description

Initializes a new instance of the **System.Web.UI.WebControls.CommandEventArgs** class with another **System.Web.UI.WebControls.CommandEventArgs** object.

Use this constructor to create and initialize a new instance of the **System.Web.UI.WebControls.CommandEventArgs** class using the specified **System.Web.UI.WebControls.CommandEventArgs** object. A **System.Web.UI.WebControls.CommandEventArgs** that contains the event data.

CommandEventArgs

Example Syntax:

TrackViewState

[C#] public CommandEventArgs(string commandName, object argument);

[C++] public: CommandEventArgs(String* commandName, Object* argument);

[VB] Public Sub New(ByVal commandName As String, ByVal argument As

Object)

[JScript] public function CommandEventArgs(commandName : String, argument : Object);

Description

Initializes a new instance of the **System.Web.UI.WebControls.CommandEventArgs** class with the specified command name and argument.

Use this constructor to create and initialize a new instance of the **System.Web.UI.WebControls.CommandEventArgs** class using the specified command name and argument. The name of the command. A **System.Object** that contains the arguments for the command.

CommandArgument

TrackViewState

[C#] public object CommandArgument {get;}

[C++] public: __property Object* get_CommandArgument();

[VB] Public ReadOnly Property CommandArgument As Object

[JScript] public function get CommandArgument() : Object;

Description

Gets the argument for the command.

The **System.Web.UI.WebControls.CommandEventArgs.CommandArgument** can contain any string set by the programmer. The

System.Web.UI.WebControls.CommandEventArgs.CommandArgument property complements the **System.Web.UI.WebControls.CommandEventArgs.CommandName** property by allowing you to provide any additional information for the command. For example, you can set the **System.Web.UI.WebControls.CommandEventArgs.CommandName** property to **Sort** and set the **System.Web.UI.WebControls.CommandEventArgs.CommandArgument** property to **Ascending** to specify a command to sort in ascending order.

CommandName

TrackViewState

```
[C#] public string CommandName {get;}
[C++] public: __property String* get_CommandName();
[VB] Public ReadOnly Property CommandName As String
[JScript] public function get CommandName() : String;
```

Description

Gets the name of the command.

Use the **System.Web.UI.WebControls.CommandEventArgs.CommandName** property to determine the command to perform. The **System.Web.UI.WebControls.CommandEventArgs.CommandName** property can contain any string set by the programmer. The programmer can then identify the command name in code and perform the appropriate tasks.

CommandEventHandler delegate (System.Web.UI.WebControls)

ToString

Description

Represents the method that will handle the **Command** event. The source of the event. A **System.Web.UI.WebControls.CommandEventArgs** that contains the event data.

The **Command** event is raised when a **System.Web.UI.WebControls.Button** or **System.Web.UI.WebControls.ImageButton** control is clicked.

CompareValidator class (System.Web.UI.WebControls)

ToString

Description

Compares the value entered by the user into an input control with the value entered into another input control or a constant value.

Use the **System.Web.UI.WebControls.CompareValidator** control to compare the value entered by the user into an input control, such as a **System.Web.UI.WebControls.TextBox** control, with the value entered into another input control or a constant value. You can also use the **System.Web.UI.WebControls.CompareValidator** control to indicate whether the value entered into an input control can be converted to the data type specified by the **System.Web.UI.WebControls.BaseCompareValidator.Type** property.

CompareValidator

Example Syntax:

ToString

[C#] public CompareValidator();

[C++] public: CompareValidator();

[VB] Public Sub New()

[JScript] public function CompareValidator();

AccessKey

Attributes

BackColor

BorderColor

BorderStyle

BorderWidth

ChildControlsCreated

ClientID

Context

Controls

ControlStyle

ControlStyleCreated

ControlToCompare

ToString

Description

Gets or sets the input control to compare with the input control being validated.

Use the **System.Web.UI.WebControls.CompareValidator.ControlToCompare** property to specify an input control, such as a **System.Web.UI.WebControls.TextBox** , to compare with the input control being validated. If the input control specified by this property is not a control on the page, an exception is thrown.

ControlToValidate

CssClass

Display

EnableClientScript

Enabled

EnableViewState

ErrorMessage

Events

Font

ForeColor

HasChildViewState

Height

ID

IsTrackingViewState

IsValid

NamingContainer

Operator

ToString

Description

Gets or sets the comparison operation to perform.

Use the **System.Web.UI.WebControls.CompareValidator.Operator** property to specify the comparison operation to perform. The following table lists the comparison operations that are possible.

Page

Parent

PropertiesValid

RenderUplevel

Site

Style

TabIndex

TagKey

TagName

TemplateSourceDirectory

Text

ToolTip

Type

UniqueID

ValueToCompare

ToString

Description

Gets or sets a constant value to compare with the value entered by the user into the input control being validated.

Use the **System.Web.UI.WebControls.CompareValidator.ValueToCompare** property to specify a constant value to compare with the value entered by the user into the input control being validated. If the constant value specified by this property fails to convert to the data type specified by the **System.Web.UI.WebControls.BaseCompareValidator.Type** property, a exception is thrown.

ViewState

ViewStateIgnoresCase

Visible

Width

AddAttributesToRender

[C#] protected override void AddAttributesToRender(HtmlTextWriter writer);

[C++] protected: void AddAttributesToRender(HtmlTextWriter* writer);

[VB] Overrides Protected Sub AddAttributesToRender(ByVal writer As HtmlTextWriter)

[JScript] protected override function AddAttributesToRender(writer : HtmlTextWriter);

Description

Adds the attributes of this control to the output stream for rendering on the client. A **System.Web.UI.HtmlTextWriter** that contains the output stream for rendering on the client.

ControlPropertiesValid

[C#] protected override bool ControlPropertiesValid();

[C++] protected: bool ControlPropertiesValid();

[VB] Overrides Protected Function ControlPropertiesValid() As Boolean

[JScript] protected override function ControlPropertiesValid() : Boolean;

Description

Checks the properties of a the control for valid values.

Return Value: **true** if the control properties are valid; otherwise **false** .

EvaluateIsValid

[C#] protected override bool EvaluateIsValid();

[C++] protected: bool EvaluateIsValid();

[VB] Overrides Protected Function EvaluateIsValid() As Boolean

[JScript] protected override function EvaluateIsValid() : Boolean;

Description

EvaluateIsValid method EvaluateIsValid method

CustomValidator class (System.Web.UI.WebControls)

Validate

Description

Performs user-defined validation on an input control.

Use the **System.Web.UI.WebControls.CustomValidator** control to provide a user-defined validation function for an input control. The **System.Web.UI.WebControls.CustomValidator** control is separated from the input control it validates, which allows you to control where the validation message is displayed.

CustomValidator

Example Syntax:

Validate

```
[C#] public CustomValidator();
[C++] public: CustomValidator();
[VB] Public Sub New()
[JScript] public function CustomValidator();
```

AccessKey

Attributes

BackColor

BorderColor

BorderStyle

BorderWidth

ChildControlsCreated

ClientID

ClientValidationFunction

Validate

Description

Gets or sets the name of the custom client-side script function used for validation.

Set this property to the name of the function that performs the client-side validation.

Context

Controls

ControlStyle

ControlStyleCreated

ControlToValidate

CssClass

Display

EnableClientScript

Enabled

EnableViewState

ErrorMessage

Events

Font

ForeColor

HasChildViewState

Height

ID

IsTrackingViewState

IsValid

NamingContainer

Page

Parent

PropertiesValid

RenderUplevel

Site

Style

TabIndex

TagKey

TagName

TemplateSourceDirectory

Text

ToolTip

UniqueID

ViewState

ViewStateIgnoresCase

Visible

Width

Validate

Description

Occurs when validation is performed on the server.

The **System.Web.UI.WebControls.CustomValidator.ServerValidate** event is raised when validation is performed on the server. This event is used to provide a custom validation routine for an input control, such as a **System.Web.UI.WebControls.TextBox** control.

AddAttributesToRender

[C#] protected override void AddAttributesToRender(HtmlTextWriter writer);
[C++] protected: void AddAttributesToRender(HtmlTextWriter* writer);
[VB] Overrides Protected Sub AddAttributesToRender(ByVal writer As HtmlTextWriter)
[JScript] protected override function AddAttributesToRender(writer : HtmlTextWriter);

Description

Adds the properties of the **System.Web.UI.WebControls.CustomValidator** control to the output stream for rendering on the client. A **System.Web.UI.HtmlTextWriter** that contains the output stream for rendering on the client.

ControlPropertiesValid

[C#] protected override bool ControlPropertiesValid();

[C++] protected: bool ControlPropertiesValid();

[VB] Overrides Protected Function ControlPropertiesValid() As Boolean

[JScript] protected override function ControlPropertiesValid() : Boolean;

Description

Checks the properties of the control for valid values.

Return Value: **true** if the control properties are valid; otherwise **false** .

EvaluateIsValid

[C#] protected override bool EvaluateIsValid();

[C++] protected: bool EvaluateIsValid();

[VB] Overrides Protected Function EvaluateIsValid() As Boolean

[JScript] protected override function EvaluateIsValid() : Boolean;

Description

EvaluateIsValid method EvaluateIsValid method

OnServerValidate

[C#] protected virtual bool OnServerValidate(string value);

[C++] protected: virtual bool OnServerValidate(String* value);

[VB] Overridable Protected Function OnServerValidate(ByVal value As String) As Boolean

[JScript] protected function OnServerValidate(value : String) : Boolean;

Description

Raises the **System.Web.UI.WebControls.CustomValidator.ServerValidate** event for the **System.Web.UI.WebControls.CustomValidator** control.

The **System.Web.UI.WebControls.CustomValidator.ServerValidate** event is raised when validation is performed on the server. The value to validate.

DataGrid class (System.Web.UI.WebControls)

Validate

Description

A data bound list control that displays the items from data source in a table. The **System.Web.UI.WebControls.DataGrid** control allows you to select, sort, and edit these items.

Use the **System.Web.UI.WebControls.DataGrid** control to display the fields of a data source as columns in a table. Each row in the **System.Web.UI.WebControls.DataGrid** control represents a record in the data source. The **System.Web.UI.WebControls.DataGrid** control supports selection, editing, deleting, paging, and sorting.

Validate

```
[C#] public const string CancelCommandName;
[C++] public: const String* CancelCommandName;
[VB] Public Const CancelCommandName As String
[JScript] public var CancelCommandName : String;
```

Description

Represents the **Cancel** command name. This field is read-only.

Use the **System.Web.UI.WebControls.DataGrid.CancelCommandName** field to represent the **Cancel** command name.

Validate

[C#] public const string DeleteCommandName;

[C++] public: const String* DeleteCommandName;

[VB] Public Const DeleteCommandName As String

[JScript] public var DeleteCommandName : String;

Description

Represents the **Delete** command name. This field is read-only.

Use the **System.Web.UI.WebControls.DataGrid.DeleteCommandName** field to represent the **Delete** command name.

Validate

[C#] public const string EditCommandName;

[C++] public: const String* EditCommandName;

[VB] Public Const EditCommandName As String

[JScript] public var EditCommandName : String;

Description

Represents the **Edit** command name. This field is read-only.

Use the **System.Web.UI.WebControls.DataGrid.EditCommandName** field to represent the **Edit** command name.

Validate

[C#] public const string NextPageCommandArgument;
[C++] public: const String* NextPageCommandArgument;
[VB] Public Const NextPageCommandArgument As String
[JScript] public var NextPageCommandArgument : String;

Description

Represents the **Next** command argument. This field is read-only.

Use the **System.Web.UI.WebControls.DataGrid.NextPageCommandArgument** field to represent the **Next** command argument.

Validate

[C#] public const string PageCommandName;
[C++] public: const String* PageCommandName;
[VB] Public Const PageCommandName As String
[JScript] public var PageCommandName : String;

Description

Represents the **Page** command name. This field is read-only.

Use the **System.Web.UI.WebControls.DataGrid.PageCommandName** field to represent the **Page** command name.

Validate

[C#] public const string PrevPageCommandArgument;

[C++] public: const String* PrevPageCommandArgument;

[VB] Public Const PrevPageCommandArgument As String

[JScript] public var PrevPageCommandArgument : String;

Description

Represents the **Prev** command argument. This field is read-only.

Use the **System.Web.UI.WebControls.DataGrid.PrevPageCommandArgument** field to represent the **Prev** command argument.

Validate

[C#] public const string SelectCommandName;

[C++] public: const String* SelectCommandName;

[VB] Public Const SelectCommandName As String

[JScript] public var SelectCommandName : String;

Description

Represents the **Select** command name. This field is read-only.

Use the **System.Web.UI.WebControls.DataGrid.SelectCommandName** field to represent the **Select** command name.

Validate

[C#] public const string SortCommandName;

[C++] public: const String* SortCommandName;

[VB] Public Const SortCommandName As String

[JScript] public var SortCommandName : String;

Description

Represents the **Sort** command name. This field is read-only.

Use the **System.Web.UI.WebControls.DataGrid.SortCommandName** field to represent the **Sort** command name.

Validate

[C#] public const string UpdateCommandName;

[C++] public: const String* UpdateCommandName;

[VB] Public Const UpdateCommandName As String

[JScript] public var UpdateCommandName : String;

Description

Represents the **Update** command name. This field is read-only.

Use the **System.Web.UI.WebControls.DataGrid.UpdateCommandName** field to represent the **Update** command name.

DataGrid

Example Syntax:

Validate

[C#] public DataGrid();

[C++] public: DataGrid();

[VB] Public Sub New()

[JScript] public function DataGrid();

Description

Initializes a new instance of the **System.Web.UI.WebControls.DataGrid** class.

Use this constructor to create and initialize a new instance of the **System.Web.UI.WebControls.DataGrid** class.

AccessKey

AllowCustomPaging

Validate

Description

Gets or sets a value that indicates whether custom paging is enabled.

Paging allows you to display the contents of the **System.Web.UI.WebControls.DataGrid** control in page segments. The number of items on a page is determined by the **System.Web.UI.WebControls.DataGrid.PageSize** property. If no value is specified for the **System.Web.UI.WebControls.DataGrid.PageSize** property, the **System.Web.UI.WebControls.DataGrid** will display 10 items on a page.

AllowPaging

Validate

[C#] public virtual bool AllowPaging {get; set;}

[C++] public: __property virtual bool get_AllowPaging();public: __property virtual void set_AllowPaging(bool);

[VB] Overridable Public Property AllowPaging As Boolean

[JScript] public function get AllowPaging() : Boolean;public function set AllowPaging(Boolean);

Description

Gets or sets a value that indicates whether paging is enabled.

Paging allows you to display the contents of the **System.Web.UI.WebControls.DataGrid** control in page segments. The number of items on a page is determined by the **System.Web.UI.WebControls.DataGrid.PageSize** property. If no value is specified for the **System.Web.UI.WebControls.DataGrid.PageSize** property, the **System.Web.UI.WebControls.DataGrid** control will display 10 items on a page.

AllowSorting

Validate

[C#] public virtual bool AllowSorting {get; set;}

[C++] public: __property virtual bool get_AllowSorting();public: __property virtual void set_AllowSorting(bool);

[VB] Overridable Public Property AllowSorting As Boolean

[JScript] public function get AllowSorting() : Boolean;public function set AllowSorting(Boolean);

Description

Gets or sets a value that indicates whether sorting is enabled.

When sorting is enabled, **System.Web.UI.WebControls.LinkButton** controls are rendered in the heading section of each column where the **System.Web.UI.WebControls.DataGridColumn.SortExpression** property is set. These **System.Web.UI.WebControls.LinkButton** controls allow you to sort the **System.Web.UI.WebControls.DataGrid** control by the selected column. The only exception is when you use a **System.Web.UI.WebControls.TemplateColumn** column type with the **System.Web.UI.WebControls.TemplateColumn.HeaderTemplate** property set. In this case, you must provide a **System.Web.UI.WebControls.Button** control in the **System.Web.UI.WebControls.TemplateColumn.HeaderTemplate** of the column.

AlternatingItemStyle

Validate

[C#] public virtual TableItemStyle AlternatingItemStyle {get;}

[C++] public: __property virtual TableItemStyle* get_AlternatingItemStyle();

[VB] Overridable Public ReadOnly Property AlternatingItemStyle As TableItemStyle

[JScript] public function get AlternatingItemStyle() : TableItemStyle;

Description

Gets the style properties for alternating items in the **System.Web.UI.WebControls.DataGrid** control.

Use the **System.Web.UI.WebControls.DataGrid.AlternatingItemStyle** property to provide a custom style for the alternating items in the **System.Web.UI.WebControls.DataGrid** control. Common style attributes that can be adjusted include forecolor, backcolor, font, and content alignment within the cell. Providing a different style enhances the appearance of the **System.Web.UI.WebControls.DataGrid** control.

Attributes

AutoGenerateColumns

Validate

Description

Gets or sets a value that indicates whether **System.Web.UI.WebControls.BoundColumn** objects are automatically created and displayed in the **System.Web.UI.WebControls.DataGrid** control for each field in the data source.

Use this property to automatically create a **System.Web.UI.WebControls.BoundColumn** object for each field in the data source. Each field is then rendered as a column in the **System.Web.UI.WebControls.DataGrid** control in the order that the fields appear in the data source.

BackColor

BackImageUrl

Validate

Description

Gets or sets the URL of an image to display in the background of the **System.Web.UI.WebControls.DataGrid** control.

Use the **System.Web.UI.WebControls.DataGrid.BackImageUrl** property to specify an image to display in the background of the **System.Web.UI.WebControls.DataGrid** control.

BorderColor

BorderStyle

BorderWidth

CellPadding

CellSpacing

ChildControlsCreated

ClientID

Columns

Validate

Description

Gets a collection of objects that represent the columns of the **System.Web.UI.WebControls.DataGrid** control.

Use this property to programmatically control the collection of columns in the **System.Web.UI.WebControls.DataGrid** control. The **System.Web.UI.WebControls.DataGrid.Columns** collection contains explicitly declared columns that get rendered in the **System.Web.UI.WebControls.DataGrid** control.

Context

Controls

ControlStyle

ControlStyleCreated

CssClass

CurrentPageIndex

Validate

Description

Gets or sets the index of the currently displayed page.

Use this property to determine the currently displayed page in the **System.Web.UI.WebControls.DataGrid** control when paging is enabled. This property is also used to programmatically control which page is displayed.

DataKeyField

DataKeys

DataKeysArray

DataMember

DataSource

EditItemIndex

Validate

Description

Gets or sets the index of an item in the **System.Web.UI.WebControls.DataGrid** control to edit.

When the **System.Web.UI.WebControls.DataGrid** control contains an **System.Web.UI.WebControls.EditCommandColumn** object, use this property to determine the index of the item selected in the **System.Web.UI.WebControls.DataGrid** control to edit.

EditItemStyle

Validate

[C#] public virtual TableItemStyle EditItemStyle {get;}

[C++] public: __property virtual TableItemStyle* get_EditItemStyle();

[VB] Overridable Public ReadOnly Property EditItemStyle As TableItemStyle

[JScript] public function get EditItemStyle() : TableItemStyle;

Description

Gets the style properties of the item selected for editing in the **System.Web.UI.WebControls.DataGrid** control.

Use the **System.Web.UI.WebControls.DataGrid.EditItemStyle** property to provide a custom style for the item selected for editing in the **System.Web.UI.WebControls.DataGrid** control. Common style attributes that can be adjusted include forecolor, backcolor, font, and content alignment within the cell. Providing a different style enhances the appearance of the **System.Web.UI.WebControls.DataGrid** control.

Enabled

EnableViewState

Events

Font

FooterStyle

Validate

Description

Gets the style properties of the footer section in the **System.Web.UI.WebControls.DataGrid** control.

Use this property to provide a custom style for the footer of the **System.Web.UI.WebControls.DataGrid** control. Common style attributes that can be adjusted include forecolor, backcolor, font, and content alignment within the cell. Providing a different style enhances the appearance of the **System.Web.UI.WebControls.DataGrid** control.

ForeColor

GridLines

HasChildViewState

HeaderStyle

Validate

Description

Gets the style properties of the heading section in the **System.Web.UI.WebControls.DataGrid** control.

Use this property to provide a custom style for the heading section of the **System.Web.UI.WebControls.DataGrid** control. Common style attributes that can be adjusted include forecolor, backcolor, font, and content alignment within the cell. Providing a different style enhances the appearance of the **System.Web.UI.WebControls.DataGrid** control.

Height

HorizontalAlign

ID

IsTrackingViewState

Items

Validate

Description

Gets a collection of **System.Web.UI.WebControls.DataGridItem** objects that represent the individual items in the **System.Web.UI.WebControls.DataGrid** control.

Use the **System.Web.UI.WebControls.DataGrid.Items** collection to programmatically control the items in the **System.Web.UI.WebControls.DataGrid** control. The

System.Web.UI.WebControls.DataGrid.Items collection does not provide any methods to add or remove items to the collection. However, you can control the contents of an item by providing a handler for the **System.Web.UI.WebControls.DataGrid.ItemCreated** event.

ItemStyle

Validate

```
[C#] public virtual TableItemStyle ItemStyle {get;}
[C++] public: __property virtual TableItemStyle* get_ItemStyle();
[VB] Overridable Public ReadOnly Property ItemStyle As TableItemStyle
[JScript] public function get ItemStyle() : TableItemStyle;
```

Description

Gets the style properties of the items in the **System.Web.UI.WebControls.DataGrid** control.

Use this property to provide a custom style for the items of the **System.Web.UI.WebControls.DataGrid** control. Common style attributes that can be adjusted include forecolor, backcolor, font, and content alignment within the cell. Providing a different style enhances the appearance of the **System.Web.UI.WebControls.DataGrid** control.

NamingContainer

Page

PageCount

Validate

Description

Gets the total number of pages required to display the items in the **System.Web.UI.WebControls.DataGrid** control.

Use this property to programmatically determine the number of pages required to display the items in the **System.Web.UI.WebControls.DataGrid** control. This property is only used when the **System.Web.UI.WebControls.DataGrid.AllowPaging** property is set to **true** .

PagerStyle

Validate

[C#] public virtual DataGridPagerStyle PagerStyle {get;}

[C++] public: __property virtual DataGridPagerStyle* get_PagerStyle();

[VB] Overridable Public ReadOnly Property PagerStyle As DataGridPagerStyle

[JScript] public function get PagerStyle() : DataGridPagerStyle;

Description

Gets the style properties of the paging section of the **System.Web.UI.WebControls.DataGrid** control.

Use this property to provide a custom style for the paging section of the **System.Web.UI.WebControls.DataGrid** control. Common style attributes that can be adjusted include forecolor, backcolor, font, and content alignment within the cell. Providing a different style enhances the appearance of the **System.Web.UI.WebControls.DataGrid** control.

PageSize

Validate

[C#] public virtual int PageSize {get; set;}

[C++] public: __property virtual int get_PageSize();public: __property virtual void set_PageSize(int);

[VB] Overridable Public Property PageSize As Integer

[JScript] public function get PageSize() : int;public function set PageSize(int);

Description

Gets or sets the number of items to display on a single page of the **System.Web.UI.WebControls.DataGrid** control.

Use this property to specify the number of items to display on a single page of the **System.Web.UI.WebControls.DataGrid** control. The **System.Web.UI.WebControls.DataGrid.AllowPaging** property must be set to **true** for this property have any effect.

Parent

SelectedIndex

Validate

Description

Gets or sets the index of the selected item in the **System.Web.UI.WebControls.DataGrid** control.

Use the **System.Web.UI.WebControls.DataGrid.SelectedIndex** property to determine the index of the item selected by the user in the **System.Web.UI.WebControls.DataGrid** control. You can also use this property to programmatically specify which item is selected in the **System.Web.UI.WebControls.DataGrid** control.

SelectedItem

Validate

[C#] public virtual DataGridItem SelectedItem {get;}

[C++] public: __property virtual DataGridItem* get_SelectedItem();

[VB] Overridable Public ReadOnly Property SelectedItem As DataGridItem

[JScript] public function get SelectedItem() : DataGridItem;

Description

Gets a **System.Web.UI.WebControls.DataGridItem** object that represents the selected item in the **System.Web.UI.WebControls.DataGrid** control.

Use the **System.Web.UI.WebControls.DataGrid.SelectedItem** property to get a **System.Web.UI.WebControls.DataGridItem** object that represents the selected item in the **System.Web.UI.WebControls.DataGrid** control. This object can then be used to access the properties of the selected item.

SelectedItemStyle

Validate

[C#] public virtual TableItemStyle SelectedItemStyle {get;}

[C++] public: __property virtual TableItemStyle* get_SelectedItemStyle();

[VB] Overridable Public ReadOnly Property SelectedItemStyle As TableItemStyle

[JScript] public function get SelectedItemStyle() : TableItemStyle;

Description

Gets the style properties of the currently selected item in the **System.Web.UI.WebControls.DataGrid** control.

Use the **System.Web.UI.WebControls.DataGrid.SelectedItemStyle** property to provide a custom style for the selected item in the **System.Web.UI.WebControls.DataGrid** control. Common style attributes that can be adjusted include forecolor, backcolor, font, and content alignment within the cell. Providing a different style enhances the appearance of the **System.Web.UI.WebControls.DataGrid** control.

ShowFooter

Validate

[C#] public virtual bool ShowFooter {get; set;}

[C++] public: __property virtual bool get_ShowFooter();public: __property virtual void set_ShowFooter(bool);

[VB] Overridable Public Property ShowFooter As Boolean

[JScript] public function get ShowFooter() : Boolean;public function set ShowFooter(Boolean);

Description

Gets or sets a value that indicates whether the footer is displayed in the **System.Web.UI.WebControls.DataGrid** control.

Set this property to **true** to display the footer in the **System.Web.UI.WebControls.DataGrid** control. The appearance of the footer is controlled by using the **System.Web.UI.WebControls.DataGrid.FooterStyle** property.

ShowHeader

Validate

[C#] public virtual bool ShowHeader {get; set;}

[C++] public: __property virtual bool get_ShowHeader();public: __property virtual void set_ShowHeader(bool);

[VB] Overridable Public Property ShowHeader As Boolean

[JScript] public function get ShowHeader() : Boolean;public function set ShowHeader(Boolean);

Description

Gets or sets a value that indicates whether the header is displayed in the **System.Web.UI.WebControls.DataGrid** control.

Set this property to **true** to display the header in the **System.Web.UI.WebControls.DataGrid** . The appearance of the header is controlled by using the **System.Web.UI.WebControls.DataGrid.HeaderStyle** property.

Site

Style

TabIndex

TagKey

TagName

TemplateSourceDirectory

ToolTip

UniqueID

ViewState

ViewStateIgnoresCase

VirtualItemCount

Validate

Description

Gets or sets the virtual number of items in the **System.Web.UI.WebControls.DataGrid** control when custom paging is used.

Use this property to specify the virtual number of items in the **System.Web.UI.WebControls.DataGrid** control when custom paging is used. This property is only used when the **System.Web.UI.WebControls.DataGrid.AllowCustomPaging** property is set to **true** .

Visible

Width

Validate

Description

Occurs when the **Cancel** button is clicked for an item in the **System.Web.UI.WebControls.DataGrid** control.

The **System.Web.UI.WebControls.DataGrid.CancelCommand** event is raised when the **Cancel** button is clicked for an item in the **System.Web.UI.WebControls.DataGrid** control.

Validate

Description

Occurs when the **Delete** button is clicked for an item in the **System.Web.UI.WebControls.DataGrid** control.

The **System.Web.UI.WebControls.DataGrid.DeleteCommand** event is raised when the **Delete** button is clicked for an item in the **System.Web.UI.WebControls.DataGrid** control.

Validate

Description

Occurs when the **Edit** button is clicked for an item in the **System.Web.UI.WebControls.DataGrid** control.

The **System.Web.UI.WebControls.DataGrid.EditCommand** event is raised when the **Edit** button is clicked for an item in the **System.Web.UI.WebControls.DataGrid** control.

Validate

Description

Occurs when any button is clicked in the **System.Web.UI.WebControls.DataGrid** control.

The **System.Web.UI.WebControls.DataGrid.ItemCommand** event is raised when any button is clicked in the **System.Web.UI.WebControls.DataGrid** control. This event is commonly used to handle buttons controls with a custom **CommandName** value in the **System.Web.UI.WebControls.DataGrid** control.

Validate

```
[C#] public event DataGridItemEventHandler ItemCreated;
[C++] public: __event DataGridItemEventHandler* ItemCreated;
[VB] Public Event ItemCreated As DataGridItemEventHandler
```

Description

Occurs on the server when an item in the **System.Web.UI.WebControls.DataGrid** control is created.

The **System.Web.UI.WebControls.DataGrid.ItemCreated** event is raised when an item in the **System.Web.UI.WebControls.DataGrid** control is created, both during round-trips and at data bind time.

Validate

[C#] public event DataGridItemEventHandler ItemDataBound;

[C++] public: __event DataGridItemEventHandler* ItemDataBound;

[VB] Public Event ItemDataBound As DataGridItemEventHandler

Description

Occurs after an item is data bound to the **System.Web.UI.WebControls.DataGrid** control.

The **System.Web.UI.WebControls.DataGrid.ItemDataBound** event is raised after an item is data bound to the **System.Web.UI.WebControls.DataGrid** control. This event provides you with the last opportunity to access the data item before it is displayed on the client. After this event is raised, the data item is nulled out and no longer available.

Validate

Description

Occurs when one of the page selection elements is clicked.

The **System.Web.UI.WebControls.DataGrid.PageIndexChanged** event is raised when one of the page selection elements is clicked.

Validate

Description

Occurs when a column is sorted.

The **System.Web.UI.WebControls.DataGrid.SortCommand** event is raised when a column is sorted.

Validate

Description

Occurs when the **Update** button is clicked for an item in the **System.Web.UI.WebControls.DataGrid** control.

The **System.Web.UI.WebControls.DataGrid.UpdateCommand** event is raised when the **Update** button for an item is clicked.

CreateColumnSet

[C#] protected virtual ArrayList CreateColumnSet(PagedDataSource dataSource, bool useDataSource);

[C++] protected: virtual ArrayList* CreateColumnSet(PagedDataSource* dataSource, bool useDataSource);

[VB] Overridable Protected Function CreateColumnSet(ByVal dataSource As PagedDataSource, ByVal useDataSource As Boolean) As ArrayList

[JScript] protected function CreateColumnSet(dataSource : PagedDataSource, useDataSource : Boolean) : ArrayList;

Description

Creates the set of columns to be used to build up the control hierarchy. When AutoGenerateColumns is true, the columns are created to match the datasource and are appended to the set of columns defined in the Columns collection. The datasource being used to create the control hierarchy Whether to use the datasource to generate columns automatically or to use saved state.

CreateControlHierarchy

[C#] protected override void CreateControlHierarchy(bool useDataSource);

[C++] protected: void CreateControlHierarchy(bool useDataSource);

[VB] Overrides Protected Sub CreateControlHierarchy(ByVal useDataSource As Boolean)

[JScript] protected override function CreateControlHierarchy(useDataSource : Boolean);

Description

Creates the control hierarchy that is used to render the DataGrid. This is called whenever a control hierarchy is needed and the ChildControlsCreated property is false. The implementation assumes that all the children in the controls collection have already been cleared. Whether to use the datasource to generate columns automatically or to use saved state.

CreateControlStyle

[C#] protected override Style CreateControlStyle();

[C++] protected: Style* CreateControlStyle();

[VB] Overrides Protected Function CreateControlStyle() As Style

[JScript] protected override function CreateControlStyle() : Style;

Description

Creates new control style.

Return Value: A **System.Web.UI.WebControls.Style** the represents the new style.

CreateItem

[C#] protected virtual DataGridItem CreateItem(int itemIndex, int dataSourceIndex, ListItemType itemType);

[C++] protected: virtual DataGridItem* CreateItem(int itemIndex, int dataSourceIndex, ListItemType itemType);

[VB] Overridable Protected Function CreateItem(ByVal itemIndex As Integer, ByVal dataSourceIndex As Integer, ByVal itemType As ListItemType) As DataGridItem

[JScript] protected function CreateItem(itemIndex : int, dataSourceIndex : int, itemType : ListItemType) : DataGridItem;

Description

InitializeItem

[C#] protected virtual void InitializeItem(DataGridItem item, DataGridColumn[] columns);

[C++] protected: virtual void InitializeItem(DataGridItem* item, DataGridColumn* columns[]);

[VB] Overridable Protected Sub InitializeItem(ByVal item As DataGridItem, ByVal columns() As DataGridColumn)

[JScript] protected function InitializeItem(item : DataGridItem, columns : DataGridColumn[]);

Description

InitializePager

[C#] protected virtual void InitializePager(DataGridItem item, int columnSpan, PagedDataSource pagedDataSource);

[C++] protected: virtual void InitializePager(DataGridItem* item, int columnSpan, PagedDataSource* pagedDataSource);

[VB] Overridable Protected Sub InitializePager(ByVal item As DataGridItem, ByVal columnSpan As Integer, ByVal pagedDataSource As PagedDataSource)

[JScript] protected function InitializePager(item : DataGridItem, columnSpan : int, pagedDataSource : PagedDataSource);

Description

Creates a DataGridItem that contains the paging UI. The paging UI is a navigation bar that is a built into a single TableCell that spans across all columns of the DataGrid.

LoadViewState

[C#] protected override void LoadViewState(object savedState);

[C++] protected: void LoadViewState(Object* savedState);

[VB] Overrides Protected Sub LoadViewState(ByVal savedState As Object)

[JScript] protected override function LoadViewState(savedState : Object);

Description

Loads a saved state of the **System.Web.UI.WebControls.DataGrid** . A saved state of the **System.Web.UI.WebControls.DataGrid**.

OnBubbleEvent

[C#] protected override bool OnBubbleEvent(object source, EventArgs e);

[C++] protected: bool OnBubbleEvent(Object* source, EventArgs* e);

[VB] Overrides Protected Function OnBubbleEvent(ByVal source As Object, ByVal e As EventArgs) As Boolean

[JScript] protected override function OnBubbleEvent(source : Object, e : EventArgs) : Boolean;

Description

The source of the event. An **System.EventArgs** that contains event data.

OnCancelCommand

[C#] protected virtual void OnCancelCommand(DataGridCommandEventArgs e);

[C++] protected: virtual void OnCancelCommand(DataGridCommandEventArgs* e);

[VB] Overridable Protected Sub OnCancelCommand(ByVal e As DataGridCommandEventArgs)

[JScript] protected function OnCancelCommand(e : DataGridCommandEventArgs);

Description

Raises the **System.Web.UI.WebControls.DataGrid.CancelCommand** event. This allows you to provide a custom handler for the event.

Use the **System.Web.UI.WebControls.DataGrid.OnCancelCommand(System.Web.UI.WebControls.DataGridCommandEventArgs)** method to provide a custom handler for the **System.Web.UI.WebControls.DataGrid.CancelCommand** event. A **System.Web.UI.WebControls.DataGridCommandEventArgs** that contains event data.

OnDeleteCommand

[C#] protected virtual void OnDeleteCommand(DataGridCommandEventArgs e);

[C++] protected: virtual void OnDeleteCommand(DataGridCommandEventArgs* e);

[VB] Overridable Protected Sub OnDeleteCommand(ByVal e As DataGridCommandEventArgs)

[JScript] protected function OnDeleteCommand(e : DataGridCommandEventArgs);

Description

Raises the **System.Web.UI.WebControls.DataGrid.DeleteCommand** event. This allows you to provide a custom handler for the event.

Use the **System.Web.UI.WebControls.DataGrid.OnDeleteCommand(System.Web.UI.WebControls.DataGridCommandEventArgs)** method to provide a custom handler for the **System.Web.UI.WebControls.DataGrid.DeleteCommand** event. A **System.Web.UI.WebControls.DataGridCommandEventArgs** that contains event data.

OnEditCommand

[C#] protected virtual void OnEditCommand(DataGridCommandEventArgs e);
[C++] protected: virtual void OnEditCommand(DataGridCommandEventArgs* e);
[VB] Overridable Protected Sub OnEditCommand(ByVal e As DataGridCommandEventArgs)
[JScript] protected function OnEditCommand(e : DataGridCommandEventArgs);

Description

Raises the **System.Web.UI.WebControls.DataGrid.EditCommand** event. This allows you to provide a custom handler for the event.

Use the **System.Web.UI.WebControls.DataGrid.OnEditCommand(System.Web.UI.WebControls.DataGridCommandEventArgs)** method to provide a custom handler for the **System.Web.UI.WebControls.DataGrid.EditCommand** event. A **System.Web.UI.WebControls.DataGridCommandEventArgs** that contains event data.

OnItemCommand

[C#] protected virtual void OnItemCommand(DataGridCommandEventArgs e);
[C++] protected: virtual void OnItemCommand(DataGridCommandEventArgs* e);
[VB] Overridable Protected Sub OnItemCommand(ByVal e As DataGridCommandEventArgs)
[JScript] protected function OnItemCommand(e : DataGridCommandEventArgs);

Description

Raises the **System.Web.UI.WebControls.DataGrid.ItemCommand** event. This allows you to provide a custom handler for the event. This allows you to provide a custom handler for the event.

Use the **System.Web.UI.WebControls.DataGrid.OnItemCommand(System.Web.UI.WebControls.DataGridCommandEventArgs)** method to provide a custom handler for the **System.Web.UI.WebControls.DataGrid.ItemCommand** event. A **System.Web.UI.WebControls.DataGridCommandEventArgs** that contains event data.

OnItemCreated

[C#] protected virtual void OnItemCreated(DataGridItemEventArgs e);
[C++] protected: virtual void OnItemCreated(DataGridItemEventArgs* e);
[VB] Overridable Protected Sub OnItemCreated(ByVal e As DataGridItemEventArgs)
[JScript] protected function OnItemCreated(e : DataGridItemEventArgs);

Description

Raises the **System.Web.UI.WebControls.DataGrid.ItemCreated** event. This allows you to provide a custom handler for the event.

Use the **System.Web.UI.WebControls.DataGrid.OnItemCreated(System.Web.UI.WebControls.DataGridItemEventArgs)** method to provide a custom handler for the **System.Web.UI.WebControls.DataGrid.ItemCreated** event. A **System.Web.UI.WebControls.DataGridItemEventArgs** that contains event data.

OnItemDataBound

[C#] protected virtual void OnItemDataBound(DataGridItemEventArgs e);
[C++] protected: virtual void OnItemDataBound(DataGridItemEventArgs* e);
[VB] Overridable Protected Sub OnItemDataBound(ByVal e As DataGridItemEventArgs)
[JScript] protected function OnItemDataBound(e : DataGridItemEventArgs);

Description

Raises the **System.Web.UI.WebControls.DataGrid.ItemDataBound** event. This allows you to provide a custom handler for the event.

Use the **System.Web.UI.WebControls.DataGrid.OnItemDataBound(System.Web.UI.WebControls.DataGridItemEventArgs)** method to provide a custom handler for the **System.Web.UI.WebControls.DataGrid.ItemDataBound** event. A

System.Web.UI.WebControls.DataGridItemEventArgs that contains event data.

OnPageIndexChanged

```
[C#] protected virtual void OnPageIndexChanged(DataGridPageChangedEventArgs e);
[C++] protected: virtual void OnPageIndexChanged(DataGridPageChangedEventArgs* e);
[VB] Overridable Protected Sub OnPageIndexChanged(ByVal e As DataGridPageChangedEventArgs)
[JScript] protected function OnPageIndexChanged(e : DataGridPageChangedEventArgs);
```

Description

Raises the **System.Web.UI.WebControls.DataGrid.PageIndexChanged** event. This allows you to provide a custom handler for the event.

Use the **System.Web.UI.WebControls.DataGrid.OnPageIndexChanged(System.Web.UI.WebControls.DataGridPageChangedEventArgs)** method to provide a custom handler for the **System.Web.UI.WebControls.DataGrid.PageIndexChanged** event. A **System.Web.UI.WebControls.DataGridPageChangedEventArgs** that contains event data.

OnSortCommand

[C#] protected virtual void OnSortCommand(DataGridSortCommandEventArgs e);

[C++] protected: virtual void OnSortCommand(DataGridSortCommandEventArgs* e);

[VB] Overridable Protected Sub OnSortCommand(ByVal e As DataGridSortCommandEventArgs)

[JScript] protected function OnSortCommand(e : DataGridSortCommandEventArgs);

Description

Raises the **System.Web.UI.WebControls.DataGrid.SortCommand** event. This allows you to provide a custom handler for the event.

Use the **System.Web.UI.WebControls.DataGrid.OnSortCommand(System.Web.UI.WebControls.DataGridSortCommandEventArgs)** method to provide a custom handler for the **System.Web.UI.WebControls.DataGrid.SortCommand** event. A **System.Web.UI.WebControls.DataGridSortCommandEventArgs** that contains event data.

OnUpdateCommand

[C#] protected virtual void OnUpdateCommand(DataGridCommandEventArgs e);

[C++] protected: virtual void OnUpdateCommand(DataGridCommandEventArgs* e);

[VB] Overridable Protected Sub OnUpdateCommand(ByVal e As

DataGridCommandEventArgs)

[JScript] protected function OnUpdateCommand(e : DataGridCommandEventArgs);

Description

Raises the **System.Web.UI.WebControls.DataGrid.UpdateCommand** event. This allows you to provide a custom handler for the event.

Use the **System.Web.UI.WebControls.DataGrid.OnUpdateCommand(System.Web.UI.WebControls.DataGridCommandEventArgs)** method to provide a custom handler for the **System.Web.UI.WebControls.DataGrid.UpdateCommand** event. A **System.Web.UI.WebControls.DataGridCommandEventArgs** that contains event data.

PrepareControlHierarchy

[C#] protected override void PrepareControlHierarchy();

[C++] protected: void PrepareControlHierarchy();

[VB] Overrides Protected Sub PrepareControlHierarchy()

[JScript] protected override function PrepareControlHierarchy();

Description

SaveViewState

[C#] protected override object SaveViewState();

[C++] protected: Object* SaveViewState();

[VB] Overrides Protected Function SaveViewState() As Object

[JScript] protected override function SaveViewState() : Object;

Description

Saves the current state of the **System.Web.UI.WebControls.DataGrid** .

Return Value: The saved state of the **System.Web.UI.WebControls.DataGrid** .

TrackViewState

[C#] protected override void TrackViewState();

[C++] protected: void TrackViewState();

[VB] Overrides Protected Sub TrackViewState()

[JScript] protected override function TrackViewState();

Description

Marks the starting point to begin tracking and saving changes to the control as part of the control viewstate.

DataGridColumn class (System.Web.UI.WebControls)

TrackViewState

Description

Serves as the base class for the different column types of the **System.Web.UI.WebControls.DataGrid** control.

The **System.Web.UI.WebControls.DataGridColumn** class is the base class for all column types of the **System.Web.UI.WebControls.DataGrid** control. It defines the properties and methods that are common to all column types. An instance of the **System.Web.UI.WebControls.DataGridColumn** class is typically not created directly.

DataGridColumn

Example Syntax:

TrackViewState

[C#] public DataGridColumn();

[C++] public: DataGridColumn();

[VB] Public Sub New()

[JScript] public function DataGridColumn();

Description

Initializes a new instance of the **System.Web.UI.WebControls.DataGridColumn** class.

Use this constructor to create and initialize an instance of the **System.Web.UI.WebControls.DataGridColumn** class.

DesignMode

TrackViewState

[C#] protected bool DesignMode {get;}

[C++] protected: __property bool get_DesignMode();

[VB] Protected ReadOnly Property DesignMode As Boolean

[JScript] protected function get DesignMode() : Boolean;

Description

Gets a value that indicates whether the column is in design mode.

Use the **System.Web.UI.WebControls.DataGridColumn.DesignMode** property to programmatically determine whether the column is in design mode

FooterStyle

TrackViewState

[C#] public virtual TableItemStyle FooterStyle {get;}

[C++] public: __property virtual TableItemStyle* get_FooterStyle();

[VB] Overridable Public ReadOnly Property FooterStyle As TableItemStyle

[JScript] public function get FooterStyle() : TableItemStyle;

Description

Gets the style properties for the footer section of the column.

Use this property to provide a custom style for the footer section of the column. Common style attributes that can be adjusted, include forecolor, backcolor, font, and content alignment within the cell. Providing a different style enhances the appearance of the column in the **System.Web.UI.WebControls.DataGrid** control.

FooterText

TrackViewState

[C#] public virtual string FooterText {get; set;}

[C++] public: __property virtual String* get_FooterText();public: __property virtual void set_FooterText(String*);

[VB] Overridable Public Property FooterText As String

[JScript] public function get FooterText() : String;public function set FooterText(String);

Description

Gets or sets the text displayed in the footer section of the column.

Use the **System.Web.UI.WebControls.DataGridColumn.FooterText** property to specify or determine the text displayed in the footer section of the column.

HeaderImageUrl

TrackViewState

[C#] public virtual string HeaderImageUrl {get; set;}

[C++] public: __property virtual String* get_HeaderImageUrl();public: __property virtual void set_HeaderImageUrl(String*);

[VB] Overridable Public Property HeaderImageUrl As String

[JScript] public function get HeaderImageUrl() : String;public function set HeaderImageUrl(String);

Description

Gets or sets the location of an image to display in the header section of the column.

Use the **System.Web.UI.WebControls.DataGridColumn.HeaderImageUrl** property to specify the URL of an image to display in the header section of the column. You can use a relative or an absolute URL. A relative URL relates the location of the image to the location of the Web page without specifying a complete path on the server. The path is relative to the location of the Web page. This makes it easier to move the entire site to another directory on the server without updating the path to the image in code. An absolute URL provides the complete path, so moving the site to another directory requires updating the code.

HeaderStyle

TrackViewState

[C#] public virtual TableItemStyle HeaderStyle {get;}

[C++] public: __property virtual TableItemStyle* get_HeaderStyle();

[VB] Overridable Public ReadOnly Property HeaderStyle As TableItemStyle

[JScript] public function get HeaderStyle() : TableItemStyle;

Description

Gets the style properties for the header section of the column.

Use this property to provide a custom style for the header section of the column. Common style attributes that can be adjusted include forecolor, backcolor, font, and content alignment within the cell. Providing a different style enhances the appearance of the column in the **System.Web.UI.WebControls.DataGrid** control.

HeaderText

TrackViewState

[C#] public virtual string HeaderText {get; set;}

[C++] public: __property virtual String* get_HeaderText();public: __property virtual void set_HeaderText(String*);

[VB] Overridable Public Property HeaderText As String

[JScript] public function get HeaderText() : String;public function set HeaderText(String);

Description

Gets or sets the text displayed in the header section of the column.

Use the **System.Web.UI.WebControls.DataGridColumn.HeaderText** property to specify or determine the text displayed in the footer section of the column.

IsTrackingViewState

TrackViewState

[C#] protected bool IsTrackingViewState {get;}

[C++] protected: __property bool get_IsTrackingViewState();

[VB] Protected ReadOnly Property IsTrackingViewState As Boolean

[JScript] protected function get IsTrackingViewState() : Boolean;

Description

Determines if the **System.Web.UI.WebControls.DataGridColumn** is marked to save its state.

ItemStyle

TrackViewState

```
[C#] public virtual TableItemStyle ItemStyle {get;}
[C++] public: __property virtual TableItemStyle* get_ItemStyle();
[VB] Overridable Public ReadOnly Property ItemStyle As TableItemStyle
[JScript] public function get ItemStyle() : TableItemStyle;
```

Description

Gets the style properties for the item cells of the column.

Use this property to provide a custom style for the item cells of the column. Common style attributes that can be adjusted include forecolor, backcolor, font, and content alignment within the cell. Providing a different style enhances the appearance of the column in the **System.Web.UI.WebControls.DataGrid** control.

Owner

TrackViewState

```
[C#] protected DataGrid Owner {get;}
[C++] protected: __property DataGrid* get_Owner();
[VB] Protected ReadOnly Property Owner As DataGrid
[JScript] protected function get Owner() : DataGrid;
```

Description

Gets the **System.Web.UI.WebControls.DataGrid** control that the column is a member of.

Use the **System.Web.UI.WebControls.DataGridColumn.Owner** property to programmatically determine the **System.Web.UI.WebControls.DataGrid** control that the column is a member of.

SortExpression

TrackViewState

[C#] public virtual string SortExpression {get; set;}

[C++] public: __property virtual String* get_SortExpression();public: __property virtual void set_SortExpression(String*);

[VB] Overridable Public Property SortExpression As String

[JScript] public function get SortExpression() : String;public function set SortExpression(String);

Description

Gets or sets the name of the field to pass to the **System.Web.UI.WebControls.DataGrid.OnSortCommand(System.Web.UI.WebControls.DataGridSortCommandEventArgs)** method when a column is selected for sorting.

Use the **System.Web.UI.WebControls.DataGridColumn.SortExpression** property to specify or determine the name of the field to pass to the **System.Web.UI.WebControls.DataGrid.OnSortCommand(System.Web.UI.WebControls.DataGridSortCommandEventArgs)** method when a column is selected for sorting.

ViewState

TrackViewState

[C#] protected StateBag ViewState {get;}

[C++] protected: __property StateBag* get_ViewState();

[VB] Protected ReadOnly Property ViewState As StateBag

[JScript] protected function get ViewState() : StateBag;

Description

Gets the statebag for the **System.Web.UI.WebControls.DataGridColumn** . This property is read-only.

Visible

TrackViewState

[C#] public bool Visible {get; set;}

[C++] public: __property bool get_Visible();public: __property void set_Visible(bool);

[VB] Public Property Visible As Boolean

[JScript] public function get Visible() : Boolean;public function set Visible(Boolean);

Description

Gets or sets a value that indicates whether the column is visible in the **System.Web.UI.WebControls.DataGrid** control.

Use the **System.Web.UI.WebControls.DataGridColumn.Visible** property to programmatically control whether the column is visible in the **System.Web.UI.WebControls.DataGrid** control.

Initialize

[C#] public virtual void Initialize();

[C++] public: virtual void Initialize();

[VB] Overridable Public Sub Initialize()

[JScript] public function Initialize();

Description

InitializeCell

[C#] public virtual void InitializeCell(TableCell cell, int columnIndex, ListItemType itemType);

[C++] public: virtual void InitializeCell(TableCell* cell, int columnIndex, ListItemType itemType);

[VB] Overridable Public Sub InitializeCell(ByVal cell As TableCell, ByVal columnIndex As Integer, ByVal itemType As ListItemType)

[JScript] public function InitializeCell(cell : TableCell, columnIndex : int, itemType : ListItemType);

Description

Initializes a cell in the **System.Web.UI.WebControls.DataGridColumn** . A **System.Web.UI.WebControls.TableCell** that contains information about the cell. The column number of the cell to initialize. One of the **System.Web.UI.WebControls.ListItemType** values.

LoadViewState

[C#] protected virtual void LoadViewState(object savedState);

[C++] protected: virtual void LoadViewState(Object* savedState);

[VB] Overridable Protected Sub LoadViewState(ByVal savedState As Object)

[JScript] protected function LoadViewState(savedState : Object);

Description

Loads the state of the **System.Web.UI.WebControls.DataGridColumn** . An **System.Object** that contains the saved state of the **System.Web.UI.WebControls.DataGridColumn**.

OnColumnChanged

[C#] protected virtual void OnColumnChanged();

[C++] protected: virtual void OnColumnChanged();

[VB] Overridable Protected Sub OnColumnChanged()

[JScript] protected function OnColumnChanged();

Description

Raises the **ColumnChanged** event of a **System.Web.UI.WebControls.DataGridColumn** object.

SaveViewState

[C#] protected virtual object SaveViewState();

[C++] protected: virtual Object* SaveViewState();

[VB] Overridable Protected Function SaveViewState() As Object

[JScript] protected function SaveViewState() : Object;

Description

Saves the current state of the **System.Web.UI.WebControls.DataGridColumn** .

Return Value: An **System.Object** that contains the saved state of the **System.Web.UI.WebControls.DataGridColumn** .

IStateManager.LoadViewState

[C#] void IStateManager.LoadViewState(object state);

[C++] void IStateManager::LoadViewState(Object* state);

[VB] Sub LoadViewState(ByVal state As Object) Implements IStateManager.LoadViewState

[JScript] function IStateManager.LoadViewState(state : Object);

IStateManager.SaveViewState

[C#] object IStateManager.SaveViewState();

[C++] Object* IStateManager::SaveViewState();

[VB] Function SaveViewState() As Object Implements IStateManager.SaveViewState

[JScript] function IStateManager.SaveViewState() : Object;

IStateManager.TrackViewState

[C#] void IStateManager.TrackViewState();

[C++] void IStateManager::TrackViewState();

[VB] Sub TrackViewState() Implements IStateManager.TrackViewState

[JScript] function IStateManager.TrackViewState();

ToString

[C#] public override string ToString();

[C++] public: String* ToString();

[VB] Overrides Public Function ToString() As String

[JScript] public override function ToString() : String;

Description

Returns the string representation of the column.

Return Value: Returns **System.String.Empty** .

Use the **System.Web.UI.WebControls.DataGridColumn.ToString** method to get the string representation of the column.

TrackViewState

[C#] protected virtual void TrackViewState();

[C++] protected: virtual void TrackViewState();

[VB] Overridable Protected Sub TrackViewState()

[JScript] protected function TrackViewState();

Description

Marks the starting point to begin tracking and saving changes to the control as part of the control viewstate.

DataGridColumnCollection class (System.Web.UI.WebControls)

TrackViewState

Description

A collection of **System.Web.UI.WebControls.DataGridColumn** derived column objects that represent the columns in a **System.Web.UI.WebControls.DataGrid** control. This class cannot be inherited.

Use the **System.Web.UI.WebControls.DataGridColumnCollection** to programmatically manage a collection of **System.Web.UI.WebControls.DataGridColumn** derived column objects. These objects represent the columns in a **System.Web.UI.WebControls.DataGrid** control. You can add, remove, or insert columns into the **System.Web.UI.WebControls.DataGridColumnCollection** .

DataGridColumnCollection

Example Syntax:

TrackViewState

```
[C#] public DataGridColumnCollection(DataGrid owner, ArrayList columns);
[C++] public: DataGridColumnCollection(DataGrid* owner, ArrayList* columns);
```

[VB] Public Sub New(ByVal owner As DataGrid, ByVal columns As ArrayList)

[JScript] public function DataGridColumnCollection(owner : DataGrid, columns : ArrayList);

Description

Initializes a new instance of the **System.Web.UI.WebControls.DataGridColumnCollection** class.

Use this constructor to create and initialize a new instance of the **System.Web.UI.WebControls.DataGridColumnCollection** class. The **System.Web.UI.WebControls.DataGrid** control that corresponds with this collection. A **System.Collections.ArrayList** object that stores the collection of columns.

Count

TrackViewState

[C#] public int Count {get;}

[C++] public: __property int get_Count();

[VB] Public ReadOnly Property Count As Integer

[JScript] public function get Count() : int;

Description

Gets the number of columns in the **System.Web.UI.WebControls.DataGridColumnCollection** .

Use this property to determine the number of columns in the **System.Web.UI.WebControls.DataGridColumnCollection** . The

System.Web.UI.WebControls.DataGridColumnCollection.Count property is commonly used when iterating through the collection to determine the upper bound of the collection.

IsReadOnly

TrackViewState

```
[C#] public bool IsReadOnly {get;}
[C++] public: __property bool get_IsReadOnly();
[VB] Public ReadOnly Property IsReadOnly As Boolean
[JScript] public function get IsReadOnly() : Boolean;
```

Description

Gets a value that indicates whether the columns in the **System.Web.UI.WebControls.DataGridColumnCollection** can be modified.

This property always returns **false** to indicate that the **System.Web.UI.WebControls.DataGridColumnCollection** can be written to in all cases.

IsSynchronized

TrackViewState

```
[C#] public bool IsSynchronized {get;}
[C++] public: __property bool get_IsSynchronized();
[VB] Public ReadOnly Property IsSynchronized As Boolean
[JScript] public function get IsSynchronized() : Boolean;
```

Description

Gets a value indicating whether access to the **System.Web.UI.WebControls.DataGridColumnCollection** is synchronized (thread-safe).

This property is derived from the **System.Collections.ICollection** class and is overridden to always return **false** .

Item

TrackViewState

[C#] public DataGridColumn this[int index] {get;}

[C++] public: __property DataGridColumn* get_Item(int index);

[VB] Public Default ReadOnly Property Item(ByVal index As Integer) As DataGridColumn

[JScript] returnValue = DataGridColumnCollectionObject.Item(index);

Description

Gets a **System.Web.UI.WebControls.DataGridColumn** derived column object from the **System.Web.UI.WebControls.DataGridColumnCollection** collection at the specified index.

Use this indexer to get a **System.Web.UI.WebControls.DataGridColumn** derived column object from the **System.Web.UI.WebControls.DataGridColumnCollection** at the specified index using array notation. The index of the **System.Web.UI.WebControls.DataGridColumn** derived object in the

System.Web.UI.WebControls.DataGridColumnCollection collection to retrieve.

SyncRoot

TrackViewState

```
[C#] public object SyncRoot {get;}
[C++] public: __property Object* get_SyncRoot();
[VB] Public ReadOnly Property SyncRoot As Object
[JScript] public function get SyncRoot() : Object;
```

Description

Gets the object that can be used to synchronize access to the **System.Web.UI.WebControls.DataGridColumnCollection** .

The object returned in this implementation is the **System.Web.UI.WebControls.DataGridColumnCollection** object.

Add

```
[C#] public void Add(DataGridColumn column);
[C++] public: void Add(DataGridColumn* column);
[VB] Public Sub Add(ByVal column As DataGridColumn)
[JScript] public function Add(column : DataGridColumn);
```

Description

Appends the specified **System.Web.UI.WebControls.DataGridColumn** derived column object to the end of the **System.Web.UI.WebControls.DataGridColumnCollection** .

Use this method to add a **System.Web.UI.WebControls.DataGridColumn** derived column object to the end of a **System.Web.UI.WebControls.DataGridColumnCollection** . The **System.Web.UI.WebControls.DataGridColumn** derived column object to append to the **System.Web.UI.WebControls.DataGridColumnCollection**.

AddAt

```
[C#] public void AddAt(int index, DataGridColumn column);
[C++] public: void AddAt(int index, DataGridColumn* column);
[VB] Public Sub AddAt(ByVal index As Integer, ByVal column As
DataGridColumn)
[JScript] public function AddAt(index : int, column : DataGridColumn);
```

Description

Inserts a **System.Web.UI.WebControls.DataGridColumn** derived column object in the **System.Web.UI.WebControls.DataGridColumnCollection** at the specified index.

Use this method to insert a **System.Web.UI.WebControls.DataGridColumn** derived column object at the specified index location in the **System.Web.UI.WebControls.DataGridColumnCollection** . The index location in the **System.Web.UI.WebControls.DataGridColumnCollection** to insert the

System.Web.UI.WebControls.DataGridColumn derived column object. The **System.Web.UI.WebControls.DataGridColumn** derived column object to insert into the **System.Web.UI.WebControls.DataGridColumnCollection**.

Clear

```
[C#] public void Clear();
[C++] public: void Clear();
[VB] Public Sub Clear()
[JScript] public function Clear();
```

Description

Removes all **System.Web.UI.WebControls.DataGridColumn** derived column objects from the **System.Web.UI.WebControls.DataGridColumnCollection** .

Use this method to remove all **System.Web.UI.WebControls.DataGridColumn** derived column objects from the **System.Web.UI.WebControls.DataGridColumnCollection** .

CopyTo

```
[C#] public void CopyTo(Array array, int index);
[C++] public: __sealed void CopyTo(Array* array, int index);
[VB] NotOverridable Public Sub CopyTo(ByVal array As Array, ByVal index As Integer)
[JScript] public function CopyTo(array : Array, index : int);
```

Description

Copies the items from the **System.Web.UI.WebControls.DataGridColumnCollection** to the specified **System.Array** object, starting at the specified index in the **System.Array** object.

Use this method to copy the contents of the **System.Web.UI.WebControls.DataGridColumnCollection** into the specified **System.Array** object, starting at the specified index. A zero-based **System.Array** object that receives the copied items from the **System.Web.UI.WebControls.DataGridColumnCollection**. The first position in the specified **System.Array** object to receive the copied contents.

GetEnumerator

[C#] public IEnumerator GetEnumerator();

[C++] public: __sealed IEnumerator* GetEnumerator();

[VB] NotOverridable Public Function GetEnumerator() As IEnumerator

[JScript] public function GetEnumerator() : IEnumerator;

Description

Returns an **System.Collections.IEnumerator** interface that contains all **System.Web.UI.WebControls.DataGridColumn** derived column objects in the **System.Web.UI.WebControls.DataGridColumnCollection** .

Return Value: A **System.Collections.IEnumerator** interface that contains all **System.Web.UI.WebControls.DataGridColumn** derived column objects in the **System.Web.UI.WebControls.DataGridColumnCollection** .

Use this method to create a **System.Collections.IEnumerator** that can be iterated through easily to get each item in the **System.Web.UI.WebControls.DataGridColumnCollection** .

IndexOf

[C#] public int IndexOf(DataGridColumn column);
[C++] public: int IndexOf(DataGridColumn* column);
[VB] Public Function IndexOf(ByVal column As DataGridColumn) As Integer
[JScript] public function IndexOf(column : DataGridColumn) : int;

Description

Returns the index of the specified **System.Web.UI.WebControls.DataGridColumn** derived column object from the **System.Web.UI.WebControls.DataGridColumnCollection** .

Return Value: The index position of the specified **System.Web.UI.WebControls.DataGridColumn** derived column object in the **System.Web.UI.WebControls.DataGridColumnCollection** . The default value is **-1** , which indicates that the specified **System.Web.UI.WebControls.DataGridColumn** derived object is not found.

Use this method to determine the index number of the specified **System.Web.UI.WebControls.DataGridColumn** derived column object in the **System.Web.UI.WebControls.DataGridColumnCollection** . If the specified **System.Web.UI.WebControls.DataGridColumn** derived column object is not found, an index of **-1** is returned. The

System.Web.UI.WebControls.DataGridColumn derived column object to search for in the **System.Web.UI.WebControls.DataGridColumnCollection**.

Remove

```
[C#] public void Remove(DataGridColumn column);
[C++] public: void Remove(DataGridColumn* column);
[VB] Public Sub Remove(ByVal column As DataGridColumn)
[JScript] public function Remove(column : DataGridColumn);
```

Description

Removes the specified **System.Web.UI.WebControls.DataGridColumn** derived column object from the **System.Web.UI.WebControls.DataGridColumnCollection** .

Use this method to remove the specified **System.Web.UI.WebControls.DataGridColumn** derived column object from a **System.Web.UI.WebControls.DataGridColumnCollection** . The **System.Web.UI.WebControls.DataGridColumn** derived column object to remove from the **System.Web.UI.WebControls.DataGridColumnCollection**.

RemoveAt

```
[C#] public void RemoveAt(int index);
[C++] public: void RemoveAt(int index);
[VB] Public Sub RemoveAt(ByVal index As Integer)
[JScript] public function RemoveAt(index : int);
```

Description

Removes a **System.Web.UI.WebControls.DataGridColumn** derived column object from the **System.Web.UI.WebControls.DataGridColumnCollection** at the specified index.

Use this method to remove a **System.Web.UI.WebControls.DataGridColumn** derived column object from a **System.Web.UI.WebControls.DataGridColumnCollection** at the specified index. The index of the **System.Web.UI.WebControls.DataGridColumn** derived column object in the **System.Web.UI.WebControls.DataGridColumnCollection** to remove.

IStateManager.LoadViewState

[C#] void IStateManager.LoadViewState(object savedState);

[C++] void IStateManager::LoadViewState(Object* savedState);

[VB] Sub LoadViewState(ByVal savedState As Object) Implements IStateManager.LoadViewState

[JScript] function IStateManager.LoadViewState(savedState : Object);

IStateManager.SaveViewState

[C#] object IStateManager.SaveViewState();

[C++] Object* IStateManager::SaveViewState();

[VB] Function SaveViewState() As Object Implements

IStateManager.SaveViewState

[JScript] function IStateManager.SaveViewState() : Object;

IStateManager.TrackViewState

[C#] void IStateManager.TrackViewState();

[C++] void IStateManager::TrackViewState();

[VB] Sub TrackViewState() Implements IStateManager.TrackViewState

[JScript] function IStateManager.TrackViewState();

DataGridCommandEventArgs class (System.Web.UI.WebControls)

ToString

Description

Provides data for the **System.Web.UI.WebControls.DataGrid.CancelCommand** , **System.Web.UI.WebControls.DataGrid.DeleteCommand** , **System.Web.UI.WebControls.DataGrid.EditCommand** , **System.Web.UI.WebControls.DataGrid.ItemCommand** , and **System.Web.UI.WebControls.DataGrid.UpdateCommand** events of the **System.Web.UI.WebControls.DataGrid** control. This class cannot be inherited.

The **System.Web.UI.WebControls.DataGrid.CancelCommand** event is raised when the **Cancel** button for an item in the **System.Web.UI.WebControls.DataGrid** control is clicked.

DataGridCommandEventArgs

Example Syntax:

ToString

[C#] public DataGridCommandEventArgs(DataGridItem item, object commandSource, CommandEventArgs originalArgs);

[C++] public: DataGridCommandEventArgs(DataGridItem* item, Object* commandSource, CommandEventArgs* originalArgs);

[VB] Public Sub New(ByVal item As DataGridItem, ByVal commandSource As Object, ByVal originalArgs As CommandEventArgs)

[JScript] public function DataGridCommandEventArgs(item : DataGridItem, commandSource : Object, originalArgs : CommandEventArgs);

Description

Initializes a new instance of the **System.Web.UI.WebControls.DataGridCommandEventArgs** class.

Use this constructor to create and initialize a new instance of the **System.Web.UI.WebControls.DataGridCommandEventArgs** class. A **System.Web.UI.WebControls.DataGridItem** that represents the selected item in the **System.Web.UI.WebControls.DataGrid**. The source of the command. A **System.Web.UI.WebControls.CommandEventArgs** that contains the event data.

CommandArgument

CommandName

CommandSource

ToString

Description

Gets the source of the command.

Use the **System.Web.UI.WebControls.DataGridCommandEventArgs.CommandSource** property to determine the command source that raised the event. This property is commonly used to determine which command raised the event.

Item

ToString

[C#] public DataGridItem Item {get;}

[C++] public: __property DataGridItem* get_Item();

[VB] Public ReadOnly Property Item As DataGridItem

[JScript] public function get Item() : DataGridItem;

Description

Gets the item containing the command source in the **System.Web.UI.WebControls.DataGrid** control.

The **System.Web.UI.WebControls.DataGridCommandEventArgs.Item** property is used to access the properties of the selected item in the **System.Web.UI.WebControls.DataGrid** control.

DataGridCommandEventHandler delegate (System.Web.UI.WebControls)

ToString

Description

Represents the method that will handle the **System.Web.UI.WebControls.DataGrid.CancelCommand** , **System.Web.UI.WebControls.DataGrid.DeleteCommand** , **System.Web.UI.WebControls.DataGrid.EditCommand** , **System.Web.UI.WebControls.DataGrid.ItemCommand** , and **System.Web.UI.WebControls.DataGrid.UpdateCommand** events of a **System.Web.UI.WebControls.DataGrid** . The source of the event. A **System.Web.UI.WebControls.DataGridCommandEventArgs** that contains the event data.

When you create a **System.Web.UI.WebControls.DataGridCommandEventHandler** delegate, you identify the method that will handle the event. To associate the event with your event handler, add an instance of the delegate to the event. The event handler is called whenever the event occurs, unless you remove the delegate. For more information about event handler delegates, see .

DataGridItem class (System.Web.UI.WebControls)

ToString

Description

Represents an item (row) in the **System.Web.UI.WebControls.DataGrid** control.

A **System.Web.UI.WebControls.DataGridItem** object represents an item (row) in the **System.Web.UI.WebControls.DataGrid** control, such as the heading section, the footer section, or a data row.

DataGridItem

Example Syntax:

ToString

[C#] public DataGridItem(int itemIndex, int dataSetIndex, ListItemType itemType);

[C++] public: DataGridItem(int itemIndex, int dataSetIndex, ListItemType itemType);

[VB] Public Sub New(ByVal itemIndex As Integer, ByVal dataSetIndex As Integer, ByVal itemType As ListItemType)

[JScript] public function DataGridItem(itemIndex : int, dataSetIndex : int, itemType : ListItemType);

Description

Initializes a new instance of the **System.Web.UI.WebControls.DataGridItem** class.

Use this constructor to create and initialize a new instance of the **System.Web.UI.WebControls.DataGridItem** class. The index of the item in the **System.Web.UI.WebControls.DataGrid** control from the **System.Web.UI.WebControls.DataGrid.Items** collection. The index number of the item, from the bound data source, that appears in the

System.Web.UI.WebControls.DataGrid control. One of the **System.Web.UI.WebControls.ListItemType** values.

AccessKey

Attributes

BackColor

BorderColor

BorderStyle

BorderWidth

Cells

ChildControlsCreated

ClientID

Context

Controls

ControlStyle

ControlStyleCreated

CssClass

DataItem

ToString

Description

Gets or sets the data item represented by the **System.Web.UI.WebControls.DataGridItem** object in the **System.Web.UI.WebControls.DataGrid** control.

Use the **System.Web.UI.WebControls.DataGridItem.DataItem** property to specify or determine the properties of a data item represented by the **System.Web.UI.WebControls.DataGridItem** object in the **System.Web.UI.WebControls.DataGrid** control.

DataSetIndex

ToString

```
[C#] public virtual int DataSetIndex {get;}
[C++] public: __property virtual int get_DataSetIndex();
[VB] Overridable Public ReadOnly Property DataSetIndex As Integer
[JScript] public function get DataSetIndex() : int;
```

Description

Gets the index number the **System.Web.UI.WebControls.DataGridItem** object from the bound data source.

Use the **System.Web.UI.WebControls.DataGridItem.DataSetIndex** property to the index number of the **System.Web.UI.WebControls.DataGridItem** object from the bound data source.

Enabled

EnableViewState

Events

Font

ForeColor

HasChildViewState

Height

HorizontalAlign

ID

IsTrackingViewState

ItemIndex

ToString

Description

Gets the index of the **System.Web.UI.WebControls.DataGridItem** object from the **System.Web.UI.WebControls.DataGrid.Items** collection of the **System.Web.UI.WebControls.DataGrid** control.

Use the **System.Web.UI.WebControls.DataGridItem.ItemIndex** property to determine the index number of the **System.Web.UI.WebControls.DataGridItem** object from the **System.Web.UI.WebControls.DataGrid.Items** collection of the **System.Web.UI.WebControls.DataGrid** control.

ItemType

ToString

[C#] public virtual ListItemType ItemType {get;}

[C++] public: __property virtual ListItemType get_ItemType();

[VB] Overridable Public ReadOnly Property ItemType As ListItemType

[JScript] public function get ItemType() : ListItemType;

Description

Gets the type of the item represented by the **System.Web.UI.WebControls.DataGridItem** object in the **System.Web.UI.WebControls.DataGrid** control.

Use the **System.Web.UI.WebControls.DataGridItem.ItemType** property to determine the type of an item in the **System.Web.UI.WebControls.DataGrid** control. The following table lists the various item types.

NamingContainer

Page

Parent

Site

Style

TabIndex

TagKey

TagName

TemplateSourceDirectory

ToolTip

UniqueID

VerticalAlign

ViewState

ViewStateIgnoresCase

Visible

Width

OnBubbleEvent

[C#] protected override bool OnBubbleEvent(object source, EventArgs e);

[C++] protected: bool OnBubbleEvent(Object* source, EventArgs* e);

[VB] Overrides Protected Function OnBubbleEvent(ByVal source As Object, ByVal e As EventArgs) As Boolean

[JScript] protected override function OnBubbleEvent(source : Object, e : EventArgs) : Boolean;

Description

SetItemType

[C#] protected internal virtual void SetItemType(ListItemType itemType);

[C++] protected public: virtual void SetItemType(ListItemType itemType);

[VB] Overridable Protected Friend Dim Sub SetItemType(ByVal itemType As ListItemType)

[JScript] package function SetItemType(itemType : ListItemType);

Description

DataGridItemCollection class (System.Web.UI.WebControls)

TrackViewState

Description

Represents a collection of **System.Web.UI.WebControls.DataGridItem** objects in a **System.Web.UI.WebControls.DataGrid** control.

The **System.Web.UI.WebControls.DataGridItemCollection** class represents a collection of **System.Web.UI.WebControls.DataGridItem** objects, which in turn represent the data items in a **System.Web.UI.WebControls.DataGrid** control. To programmatically retrieve **System.Web.UI.WebControls.DataGridItem** objects from a **System.Web.UI.WebControls.DataGrid** control, use one of following methods: Use the indexer to get a single **System.Web.UI.WebControls.DataGridItem** object from the collection, using array notation.

DataGridItemCollection

Example Syntax:

TrackViewState

```
[C#] public DataGridItemCollection(ArrayList items);
[C++] public: DataGridItemCollection(ArrayList* items);
[VB] Public Sub New(ByVal items As ArrayList)
[JScript] public function DataGridItemCollection(items : ArrayList);
```

Description

Initializes a new instance of the **System.Web.UI.WebControls.DataGridItemCollection** class.

Use this constructor to create and initialize a new instance of the **System.Web.UI.WebControls.DataGridItemCollection** class. A **System.Collections.ArrayList** object that contains the items with which to initialize the collection.

Count

TrackViewState

[C#] public int Count {get;}

[C++] public: __property int get_Count();

[VB] Public ReadOnly Property Count As Integer

[JScript] public function get Count() : int;

Description

Gets the number of **System.Web.UI.WebControls.DataGridItem** objects in the collection.

Use the **System.Web.UI.WebControls.DataGridItemCollection.Count** property to determine the number of **System.Web.UI.WebControls.DataGridItem** objects in the **System.Web.UI.WebControls.DataGridItemCollection** collection. The **System.Web.UI.WebControls.DataGridItemCollection.Count** property is commonly used when iterating through the collection to determine the upper bound of the collection.

IsReadOnly

TrackViewState

[C#] public bool IsReadOnly {get;}

[C++] public: __property bool get_IsReadOnly();

[VB] Public ReadOnly Property IsReadOnly As Boolean

[JScript] public function get IsReadOnly() : Boolean;

Description

Gets a value that indicates whether the **System.Web.UI.WebControls.DataGridItem** objects in the **System.Web.UI.WebControls.DataGridItemCollection** can be modified.

This property always returns **false** to indicate that the **System.Web.UI.WebControls.DataGridItemCollection** can be written to in all cases.

IsSynchronized

TrackViewState

```
[C#] public bool IsSynchronized {get;}
[C++] public: __property bool get_IsSynchronized();
[VB] Public ReadOnly Property IsSynchronized As Boolean
[JScript] public function get IsSynchronized() : Boolean;
```

Description

Gets a value indicating whether access to the **System.Web.UI.WebControls.DataGridItemCollection** is synchronized (thread-safe).

This property is derived from the **System.Collections.ICollection** class and is overridden to always return **false** .

Item

TrackViewState

```
[C#] public DataGridItem this[int index] {get;}
[C++] public: __property DataGridItem* get_Item(int index);
```

[VB] Public Default ReadOnly Property Item(ByVal index As Integer) As DataGridItem

[JScript] returnValue = DataGridItemCollectionObject.Item(index);

Description

Gets the **System.Web.UI.WebControls.DataGridItem** object at the specified index in the collection.

Use this indexer to get a **System.Web.UI.WebControls.DataGridItem** object from the **System.Web.UI.WebControls.DataGridItemCollection** at the specified index, using array notation. The zero-based index of the **System.Web.UI.WebControls.DataGridItem** object to retrieve from the collection.

SyncRoot

TrackViewState

[C#] public object SyncRoot {get;}

[C++] public: __property Object* get_SyncRoot();

[VB] Public ReadOnly Property SyncRoot As Object

[JScript] public function get SyncRoot() : Object;

Description

Gets the object that can be used to synchronize access to the **System.Web.UI.WebControls.DataGridItemCollection** .

The object returned in this implementation is the **System.Web.UI.WebControls.DataGridItemCollection** object itself.

CopyTo

[C#] public void CopyTo(Array array, int index);

[C++] public: __sealed void CopyTo(Array* array, int index);

[VB] NotOverridable Public Sub CopyTo(ByVal array As Array, ByVal index As Integer)

[JScript] public function CopyTo(array : Array, index : int);

Description

Copies all the items from this **System.Web.UI.WebControls.DataGridItemCollection** to the specified **System.Array** object, starting at the specified index in the **System.Array** object.

Use this method to copy the contents of the **System.Web.UI.WebControls.DataGridItemCollection** collection into the specified **System.Array** object, starting at the specified index. A zero-based **System.Array** object that receives the copied items from the **System.Web.UI.WebControls.DataGridItemCollection**. The first position in the specified **System.Array** object to receive the copied contents.

GetEnumerator

[C#] public IEnumerator GetEnumerator();

[C++] public: __sealed IEnumerator* GetEnumerator();

[VB] NotOverridable Public Function GetEnumerator() As IEnumerator

[JScript] public function GetEnumerator() : IEnumerator;

Description

Returns a **System.Collections.IEnumerator** interface that contains all **System.Web.UI.WebControls.DataGridItem** objects in the **System.Web.UI.WebControls.DataGridItemCollection** .

Return Value: A **System.Collections.IEnumerator** interface that contains all **System.Web.UI.WebControls.DataGridItem** objects in the **System.Web.UI.WebControls.DataGridItemCollection** .

Use this method to create a **System.Collections.IEnumerator** that can be easily iterated through to get each item in the **System.Web.UI.WebControls.DataGridItemCollection** .

DataGridItemEventArgs class (System.Web.UI.WebControls)

ToString

Description

Provides data for the **System.Web.UI.WebControls.DataGrid.ItemCreated** and **System.Web.UI.WebControls.DataGrid.ItemDataBound** events of the **System.Web.UI.WebControls.DataGrid** control. This class cannot be inherited.

The **System.Web.UI.WebControls.DataGrid.ItemCreated** event is raised when an item in the **System.Web.UI.WebControls.DataGrid** control is created.

DataGridItemEventArgs

Example Syntax:

ToString

[C#] public DataGridItemEventArgs(DataGridItem item);

[C++] public: DataGridItemEventArgs(DataGridItem* item);

[VB] Public Sub New(ByVal item As DataGridItem)

[JScript] public function DataGridItemEventArgs(item : DataGridItem);

Description

Initializes a new instance of **System.Web.UI.WebControls.DataGridItemEventArgs** class.

Use this constructor to create and initialize a new instance of the **System.Web.UI.WebControls.DataGridItemEventArgs** class. A **System.Web.UI.WebControls.DataGridItem** that represents an item in the **System.Web.UI.WebControls.DataGrid**.

Item

ToString

[C#] public DataGridItem Item {get;}

[C++] public: __property DataGridItem* get_Item();

[VB] Public ReadOnly Property Item As DataGridItem

[JScript] public function get Item() : DataGridItem;

Description

Gets the referenced item in the **System.Web.UI.WebControls.DataGrid** control when the event is raised.

Use this property to programmatically access the item referenced in the **System.Web.UI.WebControls.DataGrid** control when the event is raised.

DataGridItemEventHandler delegate (System.Web.UI.WebControls)

ToString

Description

Represents the method that will handle the **System.Web.UI.WebControls.DataGrid.ItemCreated** and **System.Web.UI.WebControls.DataGrid.ItemDataBound** events of a **System.Web.UI.WebControls.DataGrid** . The source of the event. A **System.Web.UI.WebControls.DataGridItemEventArgs** than contains the event data.

The **System.Web.UI.WebControls.DataGrid.ItemCreated** event is raised when an item in the **System.Web.UI.WebControls.DataGrid** control is created.

DataGridPageChangedEventArgs class (System.Web.UI.WebControls)

ToString

Description

Provides data for the **System.Web.UI.WebControls.DataGrid.PageIndexChanged** event of the **System.Web.UI.WebControls.DataGrid** control. This class cannot be inherited.

The **System.Web.UI.WebControls.DataGrid.PageIndexChanged** event is raised when a button in the page selection element of the **System.Web.UI.WebControls.DataGrid** control is clicked.

DataGridPageChangedEventArgs

Example Syntax:

ToString

[C#] public DataGridPageChangedEventArgs(object commandSource, int newPageIndex);

[C++] public: DataGridPageChangedEventArgs(Object* commandSource, int newPageIndex);

[VB] Public Sub New(ByVal commandSource As Object, ByVal newPageIndex As Integer)

[JScript] public function DataGridPageChangedEventArgs(commandSource : Object, newPageIndex : int);

Description

Initializes a new instance of the **System.Web.UI.WebControls.DataGridPageChangedEventArgs** class.

Use this constructor to create and initialize a new instance of the **System.Web.UI.WebControls.DataGridPageChangedEventArgs** class. The source of the command. The index of the page selected by the user from the page selection element of the **System.Web.UI.WebControls.DataGrid** control.

CommandSource

ToString

[C#] public object CommandSource {get;}

[C++] public: __property Object* get_CommandSource();

[VB] Public ReadOnly Property CommandSource As Object

[JScript] public function get CommandSource() : Object;

Description

Gets the source of the command.

Use the **System.Web.UI.WebControls.DataGridPageChangedEventArgs.CommandSource** property to determine the source of the command that raised the event. Because this event is only raised when a button in the page selection element of the **System.Web.UI.WebControls.DataGrid** control is clicked, the returned source is a **System.Web.UI.WebControls.DataGridItem** that represents the page selection element.

NewPageIndex

ToString

[C#] public int NewPageIndex {get;}

[C++] public: __property int get_NewPageIndex();

[VB] Public ReadOnly Property NewPageIndex As Integer

[JScript] public function get NewPageIndex() : int;

Description

Gets the index of the page selected by the user in the page selection element of the **System.Web.UI.WebControls.DataGrid** control.

Use the **System.Web.UI.WebControls.DataGridPageChangedEventArgs.NewPageIndex** property to determine the index of the page selected by the user in the page selection element of the **System.Web.UI.WebControls.DataGrid** control. This value is often used to set the **System.Web.UI.WebControls.DataGrid.CurrentPageIndex** property of the **System.Web.UI.WebControls.DataGrid** control to display the selected page.

DataGridPageChangedEventHandler delegate (System.Web.UI.WebControls)

ToString

Description

Represents the method that will handle the **System.Web.UI.WebControls.DataGrid.PageIndexChanged** event of the **System.Web.UI.WebControls.DataGrid** control. The source of the event. A **System.Web.UI.WebControls.DataGridPageChangedEventArgs** that contains the event data.

The **System.Web.UI.WebControls.DataGrid.PageIndexChanged** event is raised when a button in the page selection element of the **System.Web.UI.WebControls.DataGrid** control is clicked.

DataGridPagerStyle class (System.Web.UI.WebControls)

ToString

Description

Specifies the style for the pager of the **System.Web.UI.WebControls.DataGrid** control. This class cannot be inherited.

The pager is an element on the **System.Web.UI.WebControls.DataGrid** control that allow you to link to other pages when paging is enabled. The **System.Web.UI.WebControls.DataGrid.PagerStyle** property of the **System.Web.UI.WebControls.DataGrid** uses an instance of this class to represent the style properties for the pager.

BackColor

BorderColor

BorderStyle

BorderWidth

Container

CssClass

DesignMode

Events

Font

ForeColor

Height

HorizontalAlign

IsEmpty

IsTrackingViewState

Mode

ToString

Description

Gets or sets a value that specifies whether the pager element displays buttons that link to the next and previous page, or numeric buttons that link directly to a page.

Use the **System.Web.UI.WebControls.DataGridPagerStyle.Mode** property to specify which set of pager buttons to use on the **System.Web.UI.WebControls.DataGrid** control. You can specify buttons that link to the next and previous page, or numeric buttons that link directly to a page.

NextPageText

ToString

[C#] public string NextPageText {get; set;}

[C++] public: __property String* get_NextPageText();public: __property void set_NextPageText(String*);

[VB] Public Property NextPageText As String

[JScript] public function get NextPageText() : String;public function set NextPageText(String);

Description

Gets or sets the text displayed for the next page button.

Use the **System.Web.UI.WebControls.DataGridPagerStyle.NextPageText** property to provide custom text for the next page button. The **System.Web.UI.WebControls.DataGridPagerStyle.Mode** property must be set to **PagerMode.NextPrev** for this property to have any effect.

PageButtonCount

ToString

[C#] public int PageButtonCount {get; set;}

[C++] public: __property int get_PageButtonCount();public: __property void set_PageButtonCount(int);

[VB] Public Property PageButtonCount As Integer

[JScript] public function get PageButtonCount() : int;public function set PageButtonCount(int);

Description

Gets or sets the number of numeric buttons to display concurrently in the pager element of the **System.Web.UI.WebControls.DataGrid** control.

Use the **System.Web.UI.WebControls.DataGridPagerStyle.PageButtonCount** property to specify the number of numeric buttons to display concurrently in the pager element of the **System.Web.UI.WebControls.DataGrid** control. The **System.Web.UI.WebControls.DataGridPagerStyle.Mode** property must be set to **PagerMode.NumericPages** for this property to have any effect.

Position

ToString

[C#] public PagerPosition Position {get; set;}

[C++] public: __property PagerPosition get_Position();public: __property void set_Position(PagerPosition);

[VB] Public Property Position As PagerPosition

[JScript] public function get Position() : PagerPosition;public function set Position(PagerPosition);

Description

Gets or sets the position of the pager element in the **System.Web.UI.WebControls.DataGrid** control.

Use the **System.Web.UI.WebControls.DataGridPagerStyle.Position** property to specify the location where the pager element is displayed in the **System.Web.UI.WebControls.DataGrid** control. The pager element can be displayed at the upper edge, the lower edge, or at both the upper and lower edges of the **System.Web.UI.WebControls.DataGrid** control.

PrevPageText

ToString

[C#] public string PrevPageText {get; set;}

[C++] public: __property String* get_PrevPageText();public: __property void set_PrevPageText(String*);

[VB] Public Property PrevPageText As String

[JScript] public function get PrevPageText() : String;public function set PrevPageText(String);

Description

Gets or sets the text displayed for the previous page button.

Use the **System.Web.UI.WebControls.DataGridPagerStyle.PrevPageText** property to provide custom text for the next page button. The **System.Web.UI.WebControls.DataGridPagerStyle.Mode** property must be set to **PagerMode.NextPrev** for this property to have any effect.

Site

VerticalAlign

ViewState

Visible

ToString

Description

Gets or sets a value indicating whether the pager is displayed in the **System.Web.UI.WebControls.DataGrid** control.

Use the **System.Web.UI.WebControls.DataGridPagerStyle.Visible** property to specify whether the pager is displayed in the **System.Web.UI.WebControls.DataGrid** control.

Width

Wrap

CopyFrom

[C#] public override void CopyFrom(Style s);

[C++] public: void CopyFrom(Style* s);

[VB] Overrides Public Sub CopyFrom(ByVal s As Style)

[JScript] public override function CopyFrom(s : Style);

Description

Copies the style of the specified **System.Web.UI.WebControls.Style** object into this instance of the **System.Web.UI.WebControls.DataGridPagerStyle** class.

Use the **System.Web.UI.WebControls.DataGridPagerStyle.CopyFrom(System.Web.UI.WebControls.Style)** method to copy the style properties of the specified **System.Web.UI.WebControls.Style** object into this instance of the **System.Web.UI.WebControls.DataGridPagerStyle** class. The **System.Web.UI.WebControls.Style** object to copy from.

MergeWith

[C#] public override void MergeWith(Style s);

[C++] public: void MergeWith(Style* s);

[VB] Overrides Public Sub MergeWith(ByVal s As Style)

[JScript] public override function MergeWith(s : Style);

Description

Merges the style of the specified **System.Web.UI.WebControls.Style** object with this instance of the **System.Web.UI.WebControls.DataGridPagerStyle** class.

Use the **System.Web.UI.WebControls.DataGridPagerStyle.MergeWith(System.Web.UI.WebControls.Style)** method to combine the style properties of the specified **System.Web.UI.WebControls.Style** object with this instance of the **System.Web.UI.WebControls.DataGridPagerStyle** class. If a property from this instance is already set to a value, the property is unchanged. If a property is not set, this method sets that property with the value from the corresponding property of the **System.Web.UI.WebControls.Style** object. The **System.Web.UI.WebControls.Style** object to merge with.

Reset

```
[C#] public override void Reset();
[C++] public: void Reset();
[VB] Overrides Public Sub Reset()
[JScript] public override function Reset();
```

Description

Restores the **System.Web.UI.WebControls.DataGridPagerStyle** object to its default values.

Use the **System.Web.UI.WebControls.DataGridPagerStyle.Reset** method to restore the **System.Web.UI.WebControls.DataGridPagerStyle** object to its default values.

DataGridSortCommandEventArgs class (System.Web.UI.WebControls)

TrackViewState

Description

Provides data for the **System.Web.UI.WebControls.DataGrid.SortCommand** event of the **System.Web.UI.WebControls.DataGrid** control. This class cannot be inherited.

When sorting is enabled by setting the **System.Web.UI.WebControls.DataGrid.AllowSorting** property of the **System.Web.UI.WebControls.DataGrid** control to **true** , **System.Web.UI.WebControls.LinkButton** controls are rendered in the header of each column that has the **System.Web.UI.WebControls.DataGridColumn.SortExpression** property set. (For automatically generated columns, the **System.Web.UI.WebControls.DataGridColumn.SortExpression** property contains the same value as the data field.) These links allow you to sort the **System.Web.UI.WebControls.DataGrid** control by the selected column. The **System.Web.UI.WebControls.DataGrid.SortCommand** event is raised when a **System.Web.UI.WebControls.LinkButton** control is clicked.

DataGridSortCommandEventArgs

Example Syntax:

TrackViewState

[C#] public DataGridSortCommandEventArgs(object commandSource, DataGridCommandEventArgs dce);

[C++] public: DataGridSortCommandEventArgs(Object* commandSource, DataGridCommandEventArgs* dce);

[VB] Public Sub New(ByVal commandSource As Object, ByVal dce As DataGridCommandEventArgs)

[JScript] public function DataGridSortCommandEventArgs(commandSource : Object, dce : DataGridCommandEventArgs);

Description

Initializes a new instance of the **System.Web.UI.WebControls.DataGridSortCommandEventArgs** class.

Use this constructor to create and initialize a new instance of the **System.Web.UI.WebControls.DataGridSortCommandEventArgs** class. The source of the command. A **System.Web.UI.WebControls.DataGridCommandEventArgs** that contains the event data.

CommandSource

TrackViewState

[C#] public object CommandSource {get;}

[C++] public: __property Object* get_CommandSource();

[VB] Public ReadOnly Property CommandSource As Object

[JScript] public function get CommandSource() : Object;

Description

Gets the source of the command.

Use the **System.Web.UI.WebControls.DataGridSortCommandEventArgs.CommandSource** property to get the command source that raises the **System.Web.UI.WebControls.DataGrid.SortCommand** event. Because this event is only raised when a link is clicked in the header of the **System.Web.UI.WebControls.DataGrid** control, the returned source is a **System.Web.UI.WebControls.DataGridItem** that represents the header. This property can be used to programmatically control the header.

SortExpression

TrackViewState

```
[C#] public string SortExpression {get;}
[C++] public: __property String* get_SortExpression();
[VB] Public ReadOnly Property SortExpression As String
[JScript] public function get SortExpression() : String;
```

Description

Gets the expression used to sort the **System.Web.UI.WebControls.DataGrid** control.

Use the **System.Web.UI.WebControls.DataGridSortCommandEventArgs.SortExpression** property to determine which column the user selects to sort the **System.Web.UI.WebControls.DataGrid** control.

DataGridSortCommandEventHandler delegate (System.Web.UI.WebControls)

ToString

Description

Represents the method that will handle the **System.Web.UI.WebControls.DataGrid.SortCommand** event of the **System.Web.UI.WebControls.DataGrid** control. The source of the event. A **System.Web.UI.WebControls.DataGridSortCommandEventArgs** that contains the event data.

When sorting is enabled by setting the **System.Web.UI.WebControls.DataGrid.AllowSorting** property of the **System.Web.UI.WebControls.DataGrid** control to **true** , **System.Web.UI.WebControls.LinkButton** controls are rendered in the header of each column. These links allow you to sort the **System.Web.UI.WebControls.DataGrid** control by the selected column. The **System.Web.UI.WebControls.DataGrid.SortCommand** event is raised when a **System.Web.UI.WebControls.LinkButton** control is clicked.

DataKeyCollection class (System.Web.UI.WebControls)

ToString

Description

Represents a collection of primary key field names. This class cannot be inherited.

DataKeyCollection

Example Syntax:

ToString

```
[C#] public DataKeyCollection(ArrayList keys);
[C++] public: DataKeyCollection(ArrayList* keys);
[VB] Public Sub New(ByVal keys As ArrayList)
[JScript] public function DataKeyCollection(keys : ArrayList);
```

Description

Initializes a new instance of the **System.Web.UI.WebControls.DataKeyCollection** class. A **System.Collections.ArrayList** to store the keys.

Count

ToString

```
[C#] public int Count {get;}
[C++] public: __property int get_Count();
[VB] Public ReadOnly Property Count As Integer
[JScript] public function get Count() : int;
```

Description

Gets the number of objects in the collection. This property is read-only.

IsReadOnly

ToString

```
[C#] public bool IsReadOnly {get;}
[C++] public: __property bool get_IsReadOnly();
[VB] Public ReadOnly Property IsReadOnly As Boolean
[JScript] public function get IsReadOnly() : Boolean;
```

Description

Gets the value that specifies whether items in the **System.Web.UI.WebControls.DataKeyCollection** can be modified. This property is read-only.

IsSynchronized

ToString

```
[C#] public bool IsSynchronized {get;}
[C++] public: __property bool get_IsSynchronized();
[VB] Public ReadOnly Property IsSynchronized As Boolean
[JScript] public function get IsSynchronized() : Boolean;
```

Description

Gets a value that indicates whether the **System.Web.UI.WebControls.DataKeyCollection** is thread-safe. This property is read-only.

Item

ToString

[C#] public object this[int index] {get;}

[C++] public: __property Object* get_Item(int index);

[VB] Public Default ReadOnly Property Item(ByVal index As Integer) As Object

[JScript] returnValue = DataKeyCollectionObject.Item(index);

Description

Gets the primary key field name at the specified index in the collection. This property is read-only. The index of the primary key field name in the collection to retrieve.

SyncRoot

ToString

[C#] public object SyncRoot {get;}

[C++] public: __property Object* get_SyncRoot();

[VB] Public ReadOnly Property SyncRoot As Object

[JScript] public function get SyncRoot() : Object;

Description

Gets the object used to synchronize access to the collection. This property is read-only.

CopyTo

[C#] public void CopyTo(Array array, int index);

[C++] public: __sealed void CopyTo(Array* array, int index);

[VB] NotOverridable Public Sub CopyTo(ByVal array As Array, ByVal index As Integer)

[JScript] public function CopyTo(array : Array, index : int);

Description

Copies the contents of the entire collection into an **System.Array** appending at the specified index of the **System.Array** . The **System.Array** to copy the contents of the collection into. The index of the **System.Array** to begin copying the contents of the collection into.

GetEnumerator

[C#] public IEnumerator GetEnumerator();

[C++] public: __sealed IEnumerator* GetEnumerator();

[VB] NotOverridable Public Function GetEnumerator() As IEnumerator

[JScript] public function GetEnumerator() : IEnumerator;

Description

Creates an enumerator for the **System.Web.UI.WebControls.DataKeyCollection** used to iterate through the collection.

DataList class (System.Web.UI.WebControls)

ToString

Description

A data bound list control that displays items using templates.

Use the **System.Web.UI.WebControls.DataList** control to display a template-defined data bound list. The **System.Web.UI.WebControls.DataList** control supports selecting and editing.

ToString

```
[C#] public const string CancelCommandName;
[C++] public: const String* CancelCommandName;
[VB] Public Const CancelCommandName As String
[JScript] public var CancelCommandName : String;
```

Description

Represents the **Cancel** command name. This field is read-only.

Use the **System.Web.UI.WebControls.DataList.CancelCommandName** field to represent the **Cancel** command name.

ToString

```
[C#] public const string DeleteCommandName;
[C++] public: const String* DeleteCommandName;
[VB] Public Const DeleteCommandName As String
[JScript] public var DeleteCommandName : String;
```

Description

Represents the **Delete** command name. This field is read-only.

Use the **System.Web.UI.WebControls.DataList.DeleteCommandName** field to represent the **Delete** command name.

ToString

[C#] public const string EditCommandName;

[C++] public: const String* EditCommandName;

[VB] Public Const EditCommandName As String

[JScript] public var EditCommandName : String;

Description

Represents the **Edit** command name. This field is read-only.

Use the **System.Web.UI.WebControls.DataList.EditCommandName** field to represent the **Edit** command name.

ToString

[C#] public const string SelectCommandName;

[C++] public: const String* SelectCommandName;

[VB] Public Const SelectCommandName As String

[JScript] public var SelectCommandName : String;

Description

Represents the **Select** command name. This field is read-only.

Use the **System.Web.UI.WebControls.DataList.SelectCommandName** field to represent the **Select** command name.

ToString

[C#] public const string UpdateCommandName;
[C++] public: const String* UpdateCommandName;
[VB] Public Const UpdateCommandName As String
[JScript] public var UpdateCommandName : String;

Description

Represents the **Update** command name. This field is read-only.

Use the **System.Web.UI.WebControls.DataList.UpdateCommandName** field to represent the **Update** command name.

DataList

Example Syntax:

ToString

[C#] public DataList();
[C++] public: DataList();
[VB] Public Sub New()
[JScript] public function DataList();

Description

Initializes a new instance of the **System.Web.UI.WebControls.DataList** class.

Use this constructor to create and initialize a new instance of the **System.Web.UI.WebControls.DataList** class.

AccessKey

AlternatingItemStyle

ToString

Description

Gets the style properties for alternating items in the **System.Web.UI.WebControls.DataList** control.

Use the **System.Web.UI.WebControls.DataList.AlternatingItemStyle** property to provide a custom style for the alternating items in the **System.Web.UI.WebControls.DataList** control. Common style attributes that can be adjusted include forecolor, backcolor, font, and content alignment within the cell. Providing a different style enhances the appearance of the **System.Web.UI.WebControls.DataList** control.

AlternatingItemTemplate

ToString

```
[C#] public virtual ITemplate AlternatingItemTemplate {get; set;}
[C++] public: __property virtual ITemplate*
get_AlternatingItemTemplate();public: __property virtual void
set_AlternatingItemTemplate(ITemplate*);
[VB] Overridable Public Property AlternatingItemTemplate As ITemplate
[JScript] public function get AlternatingItemTemplate() : ITemplate;public
```

function set AlternatingItemTemplate(ITemplate);

Description

Gets or sets the template for alternating items in the **System.Web.UI.WebControls.DataList** .

Use the **System.Web.UI.WebControls.DataList.AlternatingItemTemplate** property to control the contents of alternating items in the **System.Web.UI.WebControls.DataList** control. The appearance of alternating items is controlled by the **System.Web.UI.WebControls.DataList.AlternatingItemStyle** property.

Attributes

BackColor

BorderColor

BorderStyle

BorderWidth

CellPadding

CellSpacing

ChildControlsCreated

ClientID

Context

Controls

ControlStyle

ControlStyleCreated

CssClass

DataKeyField

DataKeys

DataKeysArray

DataMember

DataSource

EditItemIndex

ToString

Description

Gets or sets the index number of the selected item in the **System.Web.UI.WebControls.DataList** control to edit.

Use the **System.Web.UI.WebControls.DataList.EditItemIndex** property to programmatically specify the item selected for editing. You can also use this property to determine the index of the item selected for editing.

EditItemStyle

ToString

[C#] public virtual TableItemStyle EditItemStyle {get;}

[C++] public: __property virtual TableItemStyle* get_EditItemStyle();

[VB] Overridable Public ReadOnly Property EditItemStyle As TableItemStyle

[JScript] public function get EditItemStyle() : TableItemStyle;

Description

Gets the style properties for the item selected for editing in the **System.Web.UI.WebControls.DataList** control.

Use the **System.Web.UI.WebControls.DataList.EditItemStyle** property to provide a custom style for the item selected for editing in the **System.Web.UI.WebControls.DataList** control. Common style attributes that can be adjusted include forecolor, backcolor, font, and content alignment within the cell. Providing a different style enhances the appearance of the **System.Web.UI.WebControls.DataList** control.

EditItemTemplate

ToString

[C#] public virtual ITemplate EditItemTemplate {get; set;}

[C++] public: __property virtual ITemplate* get_EditItemTemplate();public: __property virtual void set_EditItemTemplate(ITemplate*);

[VB] Overridable Public Property EditItemTemplate As ITemplate

[JScript] public function get EditItemTemplate() : ITemplate;public function set EditItemTemplate(ITemplate);

Description

Gets or sets the template for the item selected for editing in the **System.Web.UI.WebControls.DataList** control.

Use the **System.Web.UI.WebControls.DataList.EditItemTemplate** property to control the contents of the item selected for editing in the **System.Web.UI.WebControls.DataList** control. The appearance of the item selected for editing is controlled by the **System.Web.UI.WebControls.DataList.EditItemStyle** property.

Enabled

EnableViewState

Events

ExtractTemplateRows

ToString

Description

Gets or sets a value that indicates whether the rows of a **System.Web.UI.WebControls.Table** control, defined in each template of a **System.Web.UI.WebControls.DataList** control, are extracted and displayed.

The contents of the **System.Web.UI.WebControls.DataList** control are specified by using templates. Normally, you list controls that you want to display in the templates. You can also place a **System.Web.UI.WebControls.Table** control in a template and display the rows of the table.

Font

FooterStyle

ToString

Description

Gets the style properties for the footer section of the **System.Web.UI.WebControls.DataList** control.

Use this property to provide a custom style for the footer section of the **System.Web.UI.WebControls.DataList** control. Common style attributes that can be adjusted include forecolor, backcolor, font, and content alignment within the cell. Providing a different style enhances the appearance of the **System.Web.UI.WebControls.DataList** control.

FooterTemplate

ToString

[C#] public virtual ITemplate FooterTemplate {get; set;}

[C++] public: __property virtual ITemplate* get_FooterTemplate();public: __property virtual void set_FooterTemplate(ITemplate*);

[VB] Overridable Public Property FooterTemplate As ITemplate

[JScript] public function get FooterTemplate() : ITemplate;public function set FooterTemplate(ITemplate);

Description

Gets or sets the template for the footer section of the **System.Web.UI.WebControls.DataList** control.

Use the **System.Web.UI.WebControls.DataList.FooterTemplate** property to control the contents of the footer section. The appearance of the footer section is controlled by the **System.Web.UI.WebControls.DataList.FooterStyle** property.

ForeColor

GridLines

ToString

Description

Gets or sets the grid line style for the **System.Web.UI.WebControls.DataList** control when the **System.Web.UI.WebControls.DataList.RepeatLayout** property is set to **RepeatLayout.Table** .

Use the **System.Web.UI.WebControls.DataList.GridLines** property to specify the grid line style for the **System.Web.UI.WebControls.DataList** control. The following table lists the possible styles.

HasChildViewState

HeaderStyle

ToString

Description

Gets the style properties for the heading section of the **System.Web.UI.WebControls.DataList** control.

Use this property to provide a custom style for the heading of the **System.Web.UI.WebControls.DataList** control. Common style attributes that can be adjusted include forecolor, backcolor, font, and content alignment within the cell. Providing a different style enhances the appearance of the **System.Web.UI.WebControls.DataList** control.

HeaderTemplate

ToString

[C#] public virtual ITemplate HeaderTemplate {get; set;}

[C++] public: __property virtual ITemplate* get_HeaderTemplate();public: __property virtual void set_HeaderTemplate(ITemplate*);

[VB] Overridable Public Property HeaderTemplate As ITemplate

[JScript] public function get HeaderTemplate() : ITemplate;public function set HeaderTemplate(ITemplate);

Description

Gets or sets the template for the heading section of the **System.Web.UI.WebControls.DataList** control.

Use the **System.Web.UI.WebControls.DataList.HeaderTemplate** property to control the contents of the heading section. The appearance of the header section is controlled by the **System.Web.UI.WebControls.DataList.HeaderStyle** property.

Height

HorizontalAlign

ID

IsTrackingViewState

Items

ToString

Description

Gets a collection of **System.Web.UI.WebControls.DataListItem** objects representing the individual items within the control.

Use the **System.Web.UI.WebControls.DataList.Items** collection to programmatically control the items in the **System.Web.UI.WebControls.DataList** control. The **System.Web.UI.WebControls.DataList.Items** collection does not provide any methods to add or remove items to the collection. However, you can control the contents of an item by providing a handler for the **System.Web.UI.WebControls.DataList.ItemCreated** event.

ItemStyle

ToString

```
[C#] public virtual TableItemStyle ItemStyle {get;}
[C++] public: __property virtual TableItemStyle* get_ItemStyle();
[VB] Overridable Public ReadOnly Property ItemStyle As TableItemStyle
[JScript] public function get ItemStyle() : TableItemStyle;
```

Description

Gets the style properties for the items in the **System.Web.UI.WebControls.DataList** control.

Use this property to provide a custom style for the items of the **System.Web.UI.WebControls.DataList** control. Common style attributes that can be adjusted include forecolor, backcolor, font, and content alignment within the cell. Providing a different style enhances the appearance of the **System.Web.UI.WebControls.DataList** control.

ItemTemplate

ToString

[C#] public virtual ITemplate ItemTemplate {get; set;}

[C++] public: __property virtual ITemplate* get_ItemTemplate();public: __property virtual void set_ItemTemplate(ITemplate*);

[VB] Overridable Public Property ItemTemplate As ITemplate

[JScript] public function get ItemTemplate() : ITemplate;public function set ItemTemplate(ITemplate);

Description

Gets or sets the template for the items in the **System.Web.UI.WebControls.DataList** control.

Use the **System.Web.UI.WebControls.DataList.ItemTemplate** property to control the contents of the items in the **System.Web.UI.WebControls.DataList** control. The appearance of the items in the **System.Web.UI.WebControls.DataList** control is controlled by the **System.Web.UI.WebControls.DataList.ItemStyle** property.

NamingContainer

Page

Parent

RepeatColumns

ToString

Description

Gets or sets the number of columns to display in the **System.Web.UI.WebControls.DataList** control.

Use this property to specify the number of columns that display items in the **System.Web.UI.WebControls.DataList** control. For example, if you set this property to **5** , the **System.Web.UI.WebControls.DataList** control displays its items in five columns.

RepeatDirection

ToString

[C#] public virtual RepeatDirection RepeatDirection {get; set;}

[C++] public: __property virtual RepeatDirection get_RepeatDirection();public: __property virtual void set_RepeatDirection(RepeatDirection);

[VB] Overridable Public Property RepeatDirection As RepeatDirection

[JScript] public function get RepeatDirection() : RepeatDirection;public function set RepeatDirection(RepeatDirection);

Description

Gets or sets whether the **System.Web.UI.WebControls.DataList** control displays vertically or horizontally.

Use the **System.Web.UI.WebControls.DataList.RepeatDirection** property to specify the display direction of the **System.Web.UI.WebControls.DataList** control.

RepeatLayout

ToString

[C#] public virtual RepeatLayout RepeatLayout {get; set;}

[C++] public: __property virtual RepeatLayout get_RepeatLayout();public: __property virtual void set_RepeatLayout(RepeatLayout);

[VB] Overridable Public Property RepeatLayout As RepeatLayout

[JScript] public function get RepeatLayout() : RepeatLayout;public function set RepeatLayout(RepeatLayout);

Description

Gets or sets whether the control is displayed in a table or flow layout.

Use the **System.Web.UI.WebControls.DataList.RepeatLayout** property to specify whether the items in the **System.Web.UI.WebControls.DataList** control are displayed in a table. If this property is set to **RepeatLayout.Table** , the items in the list are displayed in a table. If this property is set to **RepeatLayout.Flow** , the items in the list are displayed without a table structure.

SelectedIndex

ToString

[C#] public virtual int SelectedIndex {get; set;}

[C++] public: __property virtual int get_SelectedIndex();public: __property virtual void set_SelectedIndex(int);

[VB] Overridable Public Property SelectedIndex As Integer

[JScript] public function get SelectedIndex() : int;public function set

SelectedIndex(int);

Description

Gets or sets the index of the selected item in the **System.Web.UI.WebControls.DataList** control.

Use the **System.Web.UI.WebControls.DataList.SelectedIndex** property to programmatically specify the selected item in the **System.Web.UI.WebControls.DataList** control. You can also use this property to determine the index of the selected item.

SelectedItem

ToString

[C#] public virtual DataListItem SelectedItem {get;}

[C++] public: __property virtual DataListItem* get_SelectedItem();

[VB] Overridable Public ReadOnly Property SelectedItem As DataListItem

[JScript] public function get SelectedItem() : DataListItem;

Description

Gets the selected item in the **System.Web.UI.WebControls.DataList** control.

Use the **System.Web.UI.WebControls.DataList.SelectedItem** property to get a **System.Web.UI.WebControls.DataListItem** object that represents the selected item in the **System.Web.UI.WebControls.DataList** control. This object can then be used to access the properties of the selected item.

SelectedItemStyle

ToString

[C#] public virtual TableItemStyle SelectedItemStyle {get;}

[C++] public: __property virtual TableItemStyle* get_SelectedItemStyle();

[VB] Overridable Public ReadOnly Property SelectedItemStyle As TableItemStyle

[JScript] public function get SelectedItemStyle() : TableItemStyle;

Description

Gets the style properties for the selected item in the **System.Web.UI.WebControls.DataList** control.

Use this property to provide a custom style for the selected item in the **System.Web.UI.WebControls.DataList** control. Common style attributes that can be adjusted include forecolor, backcolor, font, and content alignment within the cell. Providing a different style enhances the appearance of the **System.Web.UI.WebControls.DataList** control.

SelectedItemTemplate

ToString

[C#] public virtual ITemplate SelectedItemTemplate {get; set;}

[C++] public: __property virtual ITemplate* get_SelectedItemTemplate();public: __property virtual void set_SelectedItemTemplate(ITemplate*);

[VB] Overridable Public Property SelectedItemTemplate As ITemplate

[JScript] public function get SelectedItemTemplate() : ITemplate;public function set SelectedItemTemplate(ITemplate);

Description

Gets or sets the template for the selected item in the **System.Web.UI.WebControls.DataList** control.

Use the **System.Web.UI.WebControls.DataList.SelectedItemTemplate** property to control the contents of the selected item. The appearance of the selected item is controlled by the **System.Web.UI.WebControls.DataList.SelectedItemStyle** property.

SeparatorStyle

ToString

[C#] public virtual TableItemStyle SeparatorStyle {get;}

[C++] public: __property virtual TableItemStyle* get_SeparatorStyle();

[VB] Overridable Public ReadOnly Property SeparatorStyle As TableItemStyle

[JScript] public function get SeparatorStyle() : TableItemStyle;

Description

Gets the style properties of the separator between each item in the **System.Web.UI.WebControls.DataList** control.

Use the **System.Web.UI.WebControls.DataList.SeparatorStyle** property to provide a custom style for the separator between each item in the **System.Web.UI.WebControls.DataList** control. The separator allows you to place an element with custom content between each item in the **System.Web.UI.WebControls.DataList** control. Common style attributes that can be adjusted include forecolor, backcolor, font, and content alignment within the cell. Providing a different style enhances the appearance of the **System.Web.UI.WebControls.DataList** control.

SeparatorTemplate

ToString

[C#] public virtual ITemplate SeparatorTemplate {get; set;}

[C++] public: __property virtual ITemplate* get_SeparatorTemplate();public: __property virtual void set_SeparatorTemplate(ITemplate*);

[VB] Overridable Public Property SeparatorTemplate As ITemplate

[JScript] public function get SeparatorTemplate() : ITemplate;public function set SeparatorTemplate(ITemplate);

Description

Gets or sets the template for the separator between the items of the **System.Web.UI.WebControls.DataList** control.

Use the **System.Web.UI.WebControls.DataList.SeparatorTemplate** property to control the contents of the separator between the items of the **System.Web.UI.WebControls.DataList** control. The separator allows you to place an element with custom content between each item in the **System.Web.UI.WebControls.DataList** control. The appearance of the separator between the items of the **System.Web.UI.WebControls.DataList** control is controlled by the **System.Web.UI.WebControls.DataList.SeparatorStyle** property.

ShowFooter

ToString

[C#] public virtual bool ShowFooter {get; set;}

[C++] public: __property virtual bool get_ShowFooter();public: __property virtual void set_ShowFooter(bool);

[VB] Overridable Public Property ShowFooter As Boolean

[JScript] public function get ShowFooter() : Boolean;public function set ShowFooter(Boolean);

Description

Gets or sets a value indicating whether the footer section is displayed in the **System.Web.UI.WebControls.DataList** control.

Use the **System.Web.UI.WebControls.DataList.ShowFooter** property to specify whether the footer section is displayed in the **System.Web.UI.WebControls.DataList** control.

ShowHeader

ToString

[C#] public virtual bool ShowHeader {get; set;}

[C++] public: __property virtual bool get_ShowHeader();public: __property virtual void set_ShowHeader(bool);

[VB] Overridable Public Property ShowHeader As Boolean

[JScript] public function get ShowHeader() : Boolean;public function set ShowHeader(Boolean);

Description

Gets or sets a value indicating whether the header section is displayed in the **System.Web.UI.WebControls.DataList** control.

Use the **System.Web.UI.WebControls.DataList.ShowHeader** property to specify whether the header section is displayed in the **System.Web.UI.WebControls.DataList** control.

Site

Style

TabIndex

TagKey

TagName

TemplateSourceDirectory

ToolTip

UniqueID

ViewState

ViewStateIgnoresCase

Visible

Width

ToString

Description

Occurs when the **Cancel** button is clicked for an item in the **System.Web.UI.WebControls.DataList** control.

The **System.Web.UI.WebControls.DataList.CancelCommand** event is raised when the **Cancel** button is clicked for an item in the **System.Web.UI.WebControls.DataList** control.

ToString

Description

Occurs when the **Delete** button is clicked for an item in the **System.Web.UI.WebControls.DataList** control.

The **System.Web.UI.WebControls.DataList.DeleteCommand** event is raised when the **Delete** button is clicked for an item in the **System.Web.UI.WebControls.DataList** control.

ToString

Description

Occurs when the **Edit** button is clicked for an item in the **System.Web.UI.WebControls.DataList** control.

The **System.Web.UI.WebControls.DataList.EditCommand** event is raised when the **Edit** button is clicked for an item in the **System.Web.UI.WebControls.DataList** control.

ToString

Description

Occurs when any button is clicked in the **System.Web.UI.WebControls.DataList** control.

The **System.Web.UI.WebControls.DataList.ItemCommand** event is raised when any button is clicked in the **System.Web.UI.WebControls.DataList** control and is commonly used when you have a button control with a custom **CommandName** value.

ToString

[C#] public event DataListItemEventHandler ItemCreated;

[C++] public: __event DataListItemEventHandler* ItemCreated;

[VB] Public Event ItemCreated As DataListItemEventHandler

Description

Occurs on the server when an item in the **System.Web.UI.WebControls.DataList** control is created.

The **System.Web.UI.WebControls.DataList.ItemCreated** event is raised when an item in the **System.Web.UI.WebControls.DataList** control is created, both during round-trips and at data bind time.

ToString

[C#] public event DataListItemEventHandler ItemDataBound;

[C++] public: __event DataListItemEventHandler* ItemDataBound;

[VB] Public Event ItemDataBound As DataListItemEventHandler

Description

Occurs when an item is data bound to the **System.Web.UI.WebControls.DataList** control.

The **System.Web.UI.WebControls.DataList.ItemDataBound** event is raised after an item is data bound to the **System.Web.UI.WebControls.DataList** control. This event provides you with the last opportunity to access the data item before it is displayed on the client. After this event is raised, the data item is nulled out and no longer available.

ToString

Description

Occurs when the **Update** button is clicked for an item in the **System.Web.UI.WebControls.DataList** control.

The **System.Web.UI.WebControls.DataList.UpdateCommand** event is raised when the **Update** button for an item is clicked.

CreateControlHierarchy

[C#] protected override void CreateControlHierarchy(bool useDataSource);

[C++] protected: void CreateControlHierarchy(bool useDataSource);

[VB] Overrides Protected Sub CreateControlHierarchy(ByVal useDataSource As Boolean)

[JScript] protected override function CreateControlHierarchy(useDataSource : Boolean);

Description

CreateControlStyle

[C#] protected override Style CreateControlStyle();

[C++] protected: Style* CreateControlStyle();

[VB] Overrides Protected Function CreateControlStyle() As Style

[JScript] protected override function CreateControlStyle() : Style;

Description

CreateItem

[C#] protected virtual DataListItem CreateItem(int itemIndex, ListItemType itemType);

[C++] protected: virtual DataListItem* CreateItem(int itemIndex, ListItemType itemType);

[VB] Overridable Protected Function CreateItem(ByVal itemIndex As Integer, ByVal itemType As ListItemType) As DataListItem

[JScript] protected function CreateItem(itemIndex : int, itemType : ListItemType) : DataListItem;

Description

InitializeItem

[C#] protected virtual void InitializeItem(DataListItem item);

[C++] protected: virtual void InitializeItem(DataListItem* item);

[VB] Overridable Protected Sub InitializeItem(ByVal item As DataListItem)

[JScript] protected function InitializeItem(item : DataListItem);

LoadViewState

[C#] protected override void LoadViewState(object savedState);

[C++] protected: void LoadViewState(Object* savedState);

[VB] Overrides Protected Sub LoadViewState(ByVal savedState As Object)

[JScript] protected override function LoadViewState(savedState : Object);

Description

OnBubbleEvent

[C#] protected override bool OnBubbleEvent(object source, EventArgs e);

[C++] protected: bool OnBubbleEvent(Object* source, EventArgs* e);

[VB] Overrides Protected Function OnBubbleEvent(ByVal source As Object, ByVal e As EventArgs) As Boolean

[JScript] protected override function OnBubbleEvent(source : Object, e : EventArgs) : Boolean;

Description

OnCancelCommand

[C#] protected virtual void OnCancelCommand(DataListCommandEventArgs e);

[C++] protected: virtual void OnCancelCommand(DataListCommandEventArgs* e);

[VB] Overridable Protected Sub OnCancelCommand(ByVal e As DataListCommandEventArgs)

[JScript] protected function OnCancelCommand(e : DataListCommandEventArgs);

Description

Raises the **System.Web.UI.WebControls.DataList.CancelCommand** event. This allows you to provide a custom handler for the event.

Use the **System.Web.UI.WebControls.DataList.OnCancelCommand(System.Web.UI.WebControls.DataListCommandEventArgs)** method to provide a custom handler for the **System.Web.UI.WebControls.DataList.CancelCommand** event. A **System.Web.UI.WebControls.DataListCommandEventArgs** that contains event data.

OnDeleteCommand

[C#] protected virtual void OnDeleteCommand(DataListCommandEventArgs e);

[C++] protected: virtual void OnDeleteCommand(DataListCommandEventArgs* e);

[VB] Overridable Protected Sub OnDeleteCommand(ByVal e As DataListCommandEventArgs)

[JScript] protected function OnDeleteCommand(e : DataListCommandEventArgs);

Description

Raises the **System.Web.UI.WebControls.DataList.DeleteCommand** event. This allows you to provide a custom handler for the event.

Use the **System.Web.UI.WebControls.DataList.OnDeleteCommand(System.Web.UI.WebControls.DataListCommandEventArgs)** method to provide a custom handler for the **System.Web.UI.WebControls.DataList.DeleteCommand** event. A **System.Web.UI.WebControls.DataListCommandEventArgs** that contains event data.

OnEditCommand

[C#] protected virtual void OnEditCommand(DataListCommandEventArgs e);
[C++] protected: virtual void OnEditCommand(DataListCommandEventArgs* e);
[VB] Overridable Protected Sub OnEditCommand(ByVal e As DataListCommandEventArgs)
[JScript] protected function OnEditCommand(e : DataListCommandEventArgs);

Description

Raises the **System.Web.UI.WebControls.DataList.EditCommand** event. This allows you to provide a custom handler for the event.

Use the **System.Web.UI.WebControls.DataList.OnEditCommand(System.Web.UI.WebControls.DataListCommandEventArgs)** method to provide a custom handler for the **System.Web.UI.WebControls.DataList.EditCommand** event. A **System.Web.UI.WebControls.DataListCommandEventArgs** that contains event data.

OnItemCommand

[C#] protected virtual void OnItemCommand(DataListCommandEventArgs e);

[C++] protected: virtual void OnItemCommand(DataListCommandEventArgs* e);

[VB] Overridable Protected Sub OnItemCommand(ByVal e As DataListCommandEventArgs)

[JScript] protected function OnItemCommand(e : DataListCommandEventArgs);

Description

Raises the **System.Web.UI.WebControls.DataList.ItemCommand** event. This allows you to provide a custom handler for the event.

Use the **System.Web.UI.WebControls.DataList.OnItemCommand(System.Web.UI.WebControls.DataListCommandEventArgs)** method to provide a custom handler for the **System.Web.UI.WebControls.DataList.ItemCommand** event. A **System.Web.UI.WebControls.DataListCommandEventArgs** that contains event data.

OnItemCreated

[C#] protected virtual void OnItemCreated(DataListItemEventArgs e);

[C++] protected: virtual void OnItemCreated(DataListItemEventArgs* e);

[VB] Overridable Protected Sub OnItemCreated(ByVal e As DataListItemEventArgs)

[JScript] protected function OnItemCreated(e : DataListItemEventArgs);

Description

Raises the **System.Web.UI.WebControls.DataList.ItemCreated** event. This allows you to provide a custom handler for the event.

Use the **System.Web.UI.WebControls.DataList.OnItemCreated(System.Web.UI.WebControls.DataListItemEventArgs)** method to provide a custom handler for the **System.Web.UI.WebControls.DataList.ItemCreated** event. A **System.Web.UI.WebControls.DataListItemEventArgs** that contains event data.

OnItemDataBound

[C#] protected virtual void OnItemDataBound(DataListItemEventArgs e);
[C++] protected: virtual void OnItemDataBound(DataListItemEventArgs* e);
[VB] Overridable Protected Sub OnItemDataBound(ByVal e As DataListItemEventArgs)
[JScript] protected function OnItemDataBound(e : DataListItemEventArgs);

Description

Raises the **System.Web.UI.WebControls.DataList.ItemDataBound** event. This allows you to provide a custom handler for the event.

Use the **System.Web.UI.WebControls.DataList.OnItemDataBound(System.Web.UI.WebControls.DataListItemEventArgs)** method to provide a custom handler for the **System.Web.UI.WebControls.DataList.ItemDataBound** event. A **System.Web.UI.WebControls.DataListItemEventArgs** that contains event data.

OnUpdateCommand

[C#] protected virtual void OnUpdateCommand(DataListCommandEventArgs e);
[C++] protected: virtual void OnUpdateCommand(DataListCommandEventArgs* e);
[VB] Overridable Protected Sub OnUpdateCommand(ByVal e As DataListCommandEventArgs)
[JScript] protected function OnUpdateCommand(e : DataListCommandEventArgs);

Description

Raises the **System.Web.UI.WebControls.DataList.UpdateCommand** event. This allows you to provide a custom handler for the event.

Use the **System.Web.UI.WebControls.DataList.OnUpdateCommand(System.Web.UI.WebControls.DataListCommandEventArgs)** method to provide a custom handler for the **System.Web.UI.WebControls.DataList.UpdateCommand** event. A **System.Web.UI.WebControls.DataListItemEventArgs** that contains event data.

PrepareControlHierarchy

[C#] protected override void PrepareControlHierarchy();
[C++] protected: void PrepareControlHierarchy();
[VB] Overrides Protected Sub PrepareControlHierarchy()
[JScript] protected override function PrepareControlHierarchy();

Description

RenderContents

[C#] protected override void RenderContents(HtmlTextWriter writer);

[C++] protected: void RenderContents(HtmlTextWriter* writer);

[VB] Overrides Protected Sub RenderContents(ByVal writer As HtmlTextWriter)

[JScript] protected override function RenderContents(writer : HtmlTextWriter);

Description

SaveViewState

[C#] protected override object SaveViewState();

[C++] protected: Object* SaveViewState();

[VB] Overrides Protected Function SaveViewState() As Object

[JScript] protected override function SaveViewState() : Object;

Description

IRepeatInfoUser.GetItemStyle

[C#] Style IRepeatInfoUser.GetItemStyle(ListItemType itemType, int repeatIndex);

[C++] Style* IRepeatInfoUser::GetItemStyle(ListItemType itemType, int repeatIndex);

[VB] Function GetItemStyle(ByVal itemType As ListItemType, ByVal repeatIndex As Integer) As Style Implements IRepeatInfoUser.GetItemStyle

[JScript] function IRepeatInfoUser.GetItemStyle(itemType : ListItemType, repeatIndex : int) : Style;

IRepeatInfoUser.RenderItem

[C#] void IRepeatInfoUser.RenderItem(ListItemType itemType, int repeatIndex, RepeatInfo repeatInfo, HtmlTextWriter writer);

[C++] void IRepeatInfoUser::RenderItem(ListItemType itemType, int repeatIndex, RepeatInfo* repeatInfo, HtmlTextWriter* writer);

[VB] Sub RenderItem(ByVal itemType As ListItemType, ByVal repeatIndex As Integer, ByVal repeatInfo As RepeatInfo, ByVal writer As HtmlTextWriter) Implements IRepeatInfoUser.RenderItem

[JScript] function IRepeatInfoUser.RenderItem(itemType : ListItemType, repeatIndex : int, repeatInfo : RepeatInfo, writer : HtmlTextWriter);

TrackViewState

[C#] protected override void TrackViewState();

[C++] protected: void TrackViewState();

[VB] Overrides Protected Sub TrackViewState()

[JScript] protected override function TrackViewState();

Description

Marks the starting point to begin tracking and saving changes to the control as part of the control viewstate.

DataListCommandEventArgs class (System.Web.UI.WebControls)

TrackViewState

Description

Provides data for the **System.Web.UI.WebControls.DataList.CancelCommand** , **System.Web.UI.WebControls.DataList.DeleteCommand** , **System.Web.UI.WebControls.DataList.EditCommand** , **System.Web.UI.WebControls.DataList.ItemCommand** , and **System.Web.UI.WebControls.DataList.UpdateCommand** events of the **System.Web.UI.WebControls.DataList** control. This class cannot be inherited.

The **System.Web.UI.WebControls.DataList.CancelCommand** event is raised when the **Cancel** button for an item in the **System.Web.UI.WebControls.DataList** control is clicked.

DataListCommandEventArgs

Example Syntax:

TrackViewState

[C#] public DataListCommandEventArgs(DataListItem item, object commandSource, CommandEventArgs originalArgs);

[C++] public: DataListCommandEventArgs(DataListItem* item, Object* commandSource, CommandEventArgs* originalArgs);

[VB] Public Sub New(ByVal item As DataListItem, ByVal commandSource As Object, ByVal originalArgs As CommandEventArgs)

[JScript] public function DataListCommandEventArgs(item : DataListItem, commandSource : Object, originalArgs : CommandEventArgs);

Description

Initializes a new instance of the **System.Web.UI.WebControls.DataListCommandEventArgs** class.

Use this constructor to create and initialize a new instance of the **System.Web.UI.WebControls.DataListCommandEventArgs** class. The selected item from the **System.Web.UI.WebControls.DataList**. The source of the command. A **System.Web.UI.WebControls.CommandEventArgs** that contains the original event data.

CommandArgument

CommandName

CommandSource

TrackViewState

Description

Gets the source of the command.

Use the **System.Web.UI.WebControls.DataListCommandEventArgs.CommandSource** property to determine the command source that raised the event. This property is commonly used to determine which command raises the event. You can then take appropriate action, based on the command.

Item

TrackViewState

[C#] public DataListItem Item {get;}

[C++] public: __property DataListItem* get_Item();

[VB] Public ReadOnly Property Item As DataListItem

[JScript] public function get Item() : DataListItem;

Description

Gets the item containing the command source in the **System.Web.UI.WebControls.DataList** control.

Use the **System.Web.UI.WebControls.DataListCommandEventArgs.Item** property to access information about the selected item in the **System.Web.UI.WebControls.DataList** control.

DataListCommandEventHandler delegate (System.Web.UI.WebControls)

ToString

Description

Represents the method that will handle the **System.Web.UI.WebControls.DataList.CancelCommand** , **System.Web.UI.WebControls.DataList.DeleteCommand** , **System.Web.UI.WebControls.DataList.EditCommand** , **System.Web.UI.WebControls.DataList.ItemCommand** , and **System.Web.UI.WebControls.DataList.UpdateCommand** events of a **System.Web.UI.WebControls.DataList** control. The source of the event. A

System.Web.UI.WebControls.DataListCommandEventArgs that contains the event data.

The **System.Web.UI.WebControls.DataList.CancelCommand** event is raised when the **Cancel** button for an item in the **System.Web.UI.WebControls.DataList** control is clicked.

DataListItem class (System.Web.UI.WebControls)

ToString

Description

Represents an item in the **System.Web.UI.WebControls.DataList** control.

A **System.Web.UI.WebControls.DataListItem** object represents an item in the **System.Web.UI.WebControls.DataList** control, such as the heading section, the footer section, or a data item.

DataListItem

Example Syntax:

ToString

[C#] public DataListItem(int itemIndex, ListItemType itemType);

[C++] public: DataListItem(int itemIndex, ListItemType itemType);

[VB] Public Sub New(ByVal itemIndex As Integer, ByVal itemType As ListItemType)

[JScript] public function DataListItem(itemIndex : int, itemType : ListItemType);

Description

Initializes a new instance of the **System.Web.UI.WebControls.DataListItem** class.

Use this constructor to create and initialize a new instance of the **System.Web.UI.WebControls.DataListItem** class. The index of the item in the **System.Web.UI.WebControls.DataList** control from the **System.Web.UI.WebControls.DataList.Items** collection. One of the **System.Web.UI.WebControls.ListItemType** values.

AccessKey

Attributes

BackColor

BorderColor

BorderStyle

BorderWidth

ChildControlsCreated

ClientID

Context

Controls

ControlStyle

ControlStyleCreated

CssClass

DataItem

ToString

Description

Gets or sets a data item associated with the **System.Web.UI.WebControls.DataListItem** object in the **System.Web.UI.WebControls.DataList** control.

Use the **System.Web.UI.WebControls.DataListItem.DataItem** property to specify or determine the properties of a data item associated with the **System.Web.UI.WebControls.DataListItem** object in the **System.Web.UI.WebControls.DataList** control.

Enabled

EnableViewState

Events

Font

ForeColor

HasChildViewState

Height

ID

IsTrackingViewState

ItemIndex

ToString

Description

Gets the index of the **System.Web.UI.WebControls.DataListItem** object from from the **System.Web.UI.WebControls.DataList.Items** collection of the control.

Use the **System.Web.UI.WebControls.DataListItem.ItemIndex** property to determine the index number of the **System.Web.UI.WebControls.DataListItem** object from the **System.Web.UI.WebControls.DataList.Items** collection.

ItemType

ToString

```
[C#] public virtual ListItemType ItemType {get;}
[C++] public: __property virtual ListItemType get_ItemType();
[VB] Overridable Public ReadOnly Property ItemType As ListItemType
[JScript] public function get ItemType() : ListItemType;
```

Description

Gets the type of the item represented by the **System.Web.UI.WebControls.DataListItem** object in the **System.Web.UI.WebControls.DataList** control.

Use the **System.Web.UI.WebControls.DataListItem.ItemType** property to determine the type of the item represented by the **System.Web.UI.WebControls.DataGridItem** object. The following table lists the various item types.

NamingContainer

Page

Parent

Site

Style

TabIndex

TagKey

TagName

TemplateSourceDirectory

ToolTip

UniqueID

ViewState

ViewStateIgnoresCase

Visible

Width

CreateControlStyle

[C#] protected override Style CreateControlStyle();

[C++] protected: Style* CreateControlStyle();

[VB] Overrides Protected Function CreateControlStyle() As Style

[JScript] protected override function CreateControlStyle() : Style;

Description

OnBubbleEvent

[C#] protected override bool OnBubbleEvent(object source, EventArgs e);

[C++] protected: bool OnBubbleEvent(Object* source, EventArgs* e);

[VB] Overrides Protected Function OnBubbleEvent(ByVal source As Object, ByVal e As EventArgs) As Boolean

[JScript] protected override function OnBubbleEvent(source : Object, e :

EventArgs) : Boolean;

Description

RenderItem

[C#] public virtual void RenderItem(HtmlTextWriter writer, bool extractRows, bool tableLayout);
[C++] public: virtual void RenderItem(HtmlTextWriter* writer, bool extractRows, bool tableLayout);
[VB] Overridable Public Sub RenderItem(ByVal writer As HtmlTextWriter, ByVal extractRows As Boolean, ByVal tableLayout As Boolean)
[JScript] public function RenderItem(writer : HtmlTextWriter, extractRows : Boolean, tableLayout : Boolean);

Description

Displays the **System.Web.UI.WebControls.DataListItem** object on the client.

Use the **System.Web.UI.WebControls.DataListItem.RenderItem(System.Web.UI.HtmlTextWriter,System.Boolean,System.Boolean)** method to display the **System.Web.UI.WebControls.DataListItem** object on the client. A **System.Web.UI.HtmlTextWriter** object that contains the output stream for rendering on the client. **true** to extract rows; otherwise **false**. **true** to display as a table; otherwise **false**.

SetItemType

[C#] protected internal virtual void SetItemType(ListItemType itemType);

[C++] protected public: virtual void SetItemType(ListItemType itemType);

[VB] Overridable Protected Friend Dim Sub SetItemType(ByVal itemType As ListItemType)

[JScript] package function SetItemType(itemType : ListItemType);

Description

DataListItemCollection class (System.Web.UI.WebControls)

TrackViewState

Description

Represents the collection of **System.Web.UI.WebControls.DataListItem** objects in the **System.Web.UI.WebControls.DataList** control. This class cannot be inherited.

The **System.Web.UI.WebControls.DataListItemCollection** class represents a collection of **System.Web.UI.WebControls.DataListItem** objects, which in turn represent the data items in a **System.Web.UI.WebControls.DataList** control. To programmatically retrieve **System.Web.UI.WebControls.DataListItem** objects from a **System.Web.UI.WebControls.DataList** control, use one of the following methods: Use the indexer to get a single **System.Web.UI.WebControls.DataListItem** object from the collection, using array notation.

DataListItemCollection

Example Syntax:

TrackViewState

```
[C#] public DataListItemCollection(ArrayList items);
[C++] public: DataListItemCollection(ArrayList* items);
[VB] Public Sub New(ByVal items As ArrayList)
[JScript] public function DataListItemCollection(items : ArrayList);
```

Description

Initializes a new instance of the **System.Web.UI.WebControls.DataListItemCollection** class.

Use this constructor to create and initialize a new instance of the **System.Web.UI.WebControls.DataListItemCollection** class. A **System.Collections.ArrayList** object that contains the items with which to initialize the collection.

Count

TrackViewState

```
[C#] public int Count {get;}
[C++] public: __property int get_Count();
[VB] Public ReadOnly Property Count As Integer
[JScript] public function get Count() : int;
```

Description

Gets the number of **System.Web.UI.WebControls.DataListItem** objects in the collection.

Use the **System.Web.UI.WebControls.DataListItemCollection.Count** property to determine the number of **System.Web.UI.WebControls.DataListItem** objects in the **System.Web.UI.WebControls.DataListItemCollection** collection. The **System.Web.UI.WebControls.DataListItemCollection.Count** property is commonly used when iterating through the collection to determine the upper bound of the collection.

IsReadOnly

TrackViewState

```
[C#] public bool IsReadOnly {get;}
[C++] public: __property bool get_IsReadOnly();
[VB] Public ReadOnly Property IsReadOnly As Boolean
[JScript] public function get IsReadOnly() : Boolean;
```

Description

Gets a value that indicates whether the **System.Web.UI.WebControls.DataListItem** objects in the **System.Web.UI.WebControls.DataListItemCollection** can be modified.

This property always returns **false** to indicate that the **System.Web.UI.WebControls.DataListItemCollection** can be written to in all cases.

IsSynchronized

TrackViewState

[C#] public bool IsSynchronized {get;}

[C++] public: __property bool get_IsSynchronized();

[VB] Public ReadOnly Property IsSynchronized As Boolean

[JScript] public function get IsSynchronized() : Boolean;

Description

Gets a value indicating whether access to the **System.Web.UI.WebControls.DataListItemCollection** is synchronized (thread-safe).

This property is derived from the **System.Collections.ICollection** class and is overridden to always return **false** .

Item

TrackViewState

[C#] public DataListItem this[int index] {get;}

[C++] public: __property DataListItem* get_Item(int index);

[VB] Public Default ReadOnly Property Item(ByVal index As Integer) As DataListItem

[JScript] returnValue = DataListItemCollectionObject.Item(index);

Description

Gets a **System.Web.UI.WebControls.DataListItem** object at the specified index in the collection.

Use this indexer to get a **System.Web.UI.WebControls.DataListItem** object from the **System.Web.UI.WebControls.DataListItemCollection** at the specified index using array notation. The index of the **System.Web.UI.WebControls.DataListItem** in the collection to retrieve.

SyncRoot

TrackViewState

```
[C#] public object SyncRoot {get;}
[C++] public: __property Object* get_SyncRoot();
[VB] Public ReadOnly Property SyncRoot As Object
[JScript] public function get SyncRoot() : Object;
```

Description

Gets the object that can be used to synchronize access to the **System.Web.UI.WebControls.DataListItemCollection** collection.

The object returned in this implementation is the **System.Web.UI.WebControls.DataListItemCollection** object itself.

CopyTo

```
[C#] public void CopyTo(Array array, int index);
[C++] public: __sealed void CopyTo(Array* array, int index);
[VB] NotOverridable Public Sub CopyTo(ByVal array As Array, ByVal index As Integer)
[JScript] public function CopyTo(array : Array, index : int);
```

Description

Copies all the items from this **System.Web.UI.WebControls.DataListItemCollection** collection to the specified **System.Array** object, starting at the specified index in the **System.Array** object.

Use this method to copy the contents of the **System.Web.UI.WebControls.DataListItemCollection** collection into the specified **System.Array** object, starting at the specified index. A zero-based **System.Array** object that receives the copied items from the **System.Web.UI.WebControls.DataListItemCollection** collection. The first position in the specified **System.Array** object to receive the copied contents.

GetEnumerator

```
[C#] public IEnumerator GetEnumerator();
[C++] public: __sealed IEnumerator* GetEnumerator();
[VB] NotOverridable Public Function GetEnumerator() As IEnumerator
[JScript] public function GetEnumerator() : IEnumerator;
```

Description

Returns a **System.Collections.IEnumerator** interface that contains all **System.Web.UI.WebControls.DataListItem** objects in the **System.Web.UI.WebControls.DataListItemCollection** .

Return Value: A **System.Collections.IEnumerator** interface that contains all

System.Web.UI.WebControls.DataListItem objects in the **System.Web.UI.WebControls.DataListItemCollection** .

Use this method to create a **System.Collections.IEnumerator** that can be easily iterated through to get each item in the **System.Web.UI.WebControls.DataListItemCollection** collection.

DataListItemEventArgs class (System.Web.UI.WebControls)

ToString

Description

Provides data for the **System.Web.UI.WebControls.DataList.ItemCreated** and **System.Web.UI.WebControls.DataList.ItemDataBound** events of a **System.Web.UI.WebControls.DataList** control. This class cannot be inherited.

The **System.Web.UI.WebControls.DataList.ItemCreated** event is raised when an item in the **System.Web.UI.WebControls.DataList** control is created.

DataListItemEventArgs

Example Syntax:

ToString

```
[C#] public DataListItemEventArgs(DataListItem item);
[C++] public: DataListItemEventArgs(DataListItem* item);
[VB] Public Sub New(ByVal item As DataListItem)
[JScript] public function DataListItemEventArgs(item : DataListItem);
```

Description

Initializes a new instance of the **System.Web.UI.WebControls.DataListItemEventArgs** class.

Use this constructor to create and initialize a new instance of the **System.Web.UI.WebControls.DataListItemEventArgs** class. A **System.Web.UI.WebControls.DataListItem** object that represents an item in the **System.Web.UI.WebControls.DataList** control.

Item

ToString

[C#] public DataListItem Item {get;}

[C++] public: __property DataListItem* get_Item();

[VB] Public ReadOnly Property Item As DataListItem

[JScript] public function get Item() : DataListItem;

Description

Gets the referenced item in the **System.Web.UI.WebControls.DataList** control when the event is raised.

The items in the **System.Web.UI.WebControls.DataList** control are referenced as each item is created or bound to the control. Use this property to programmatically access the referenced item in the **System.Web.UI.WebControls.DataList** control when the **System.Web.UI.WebControls.DataList.ItemCreated** or **System.Web.UI.WebControls.DataList.ItemDataBound** event is raised.

DataListItemEventHandler delegate (System.Web.UI.WebControls)

ToString

Description

Represents the method that will handle the **System.Web.UI.WebControls.DataList.ItemCreated** and **System.Web.UI.WebControls.DataList.ItemDataBound** events of the **System.Web.UI.WebControls.DataList** control. The source of the event. A **System.Web.UI.WebControls.DataListItemEventArgs** that contains the event data.

The **System.Web.UI.WebControls.DataList.ItemCreated** event is raised when an item in the **System.Web.UI.WebControls.DataList** control is created.

DayNameFormat enumeration (System.Web.UI.WebControls)

ToString

Description

Specifies the display format for the days of the week on a **System.Web.UI.WebControls.Calendar** control.

The **System.Web.UI.WebControls.DayNameFormat** enumeration represents the display formats for the days of the week on a **System.Web.UI.WebControls.Calendar** control.

ToString

```
[C#] public const DayNameFormat FirstLetter;
[C++] public: const DayNameFormat FirstLetter;
[VB] Public Const FirstLetter As DayNameFormat
[JScript] public var FirstLetter : DayNameFormat;
```

Description

The days of the week displayed with just the first letter. For example, T.

ToString

```
[C#] public const DayNameFormat FirstTwoLetters;
[C++] public: const DayNameFormat FirstTwoLetters;
[VB] Public Const FirstTwoLetters As DayNameFormat
[JScript] public var FirstTwoLetters : DayNameFormat;
```

Description

The days of the week displayed with just the first two letters. For example, Tu.

ToString

```
[C#] public const DayNameFormat Full;
[C++] public: const DayNameFormat Full;
[VB] Public Const Full As DayNameFormat
[JScript] public var Full : DayNameFormat;
```

Description

The days of the week displayed in full format. For example, Tuesday.

ToString

[C#] public const DayNameFormat Short;

[C++] public: const DayNameFormat Short;

[VB] Public Const Short As DayNameFormat

[JScript] public var Short : DayNameFormat;

Description

The days of the week displayed in abbreviated format. For example, Tues.

DayRenderEventArgs class (System.Web.UI.WebControls)

ToString

Description

Provides data for the **System.Web.UI.WebControls.Calendar.DayRender** event of the **System.Web.UI.WebControls.Calendar** control. This class cannot be inherited.

Although data binding is not supported for the **System.Web.UI.WebControls.Calendar** control, it is possible to modify the content and formatting of the individual date cells. Before the **System.Web.UI.WebControls.Calendar** control is displayed on the Web page, it creates and assembles the components that make up the control. The

System.Web.UI.WebControls.Calendar.DayRender event is raised when each date cell in **System.Web.UI.WebControls.Calendar** control is created. You can control the contents and formatting of a date cell when it is created by providing code in the event handler for the **System.Web.UI.WebControls.Calendar.DayRender** event.

DayRenderEventArgs

Example Syntax:

ToString

```
[C#] public DayRenderEventArgs(TableCell cell, CalendarDay day);
[C++] public: DayRenderEventArgs(TableCell* cell, CalendarDay* day);
[VB] Public Sub New(ByVal cell As TableCell, ByVal day As CalendarDay)
[JScript] public function DayRenderEventArgs(cell : TableCell, day :
CalendarDay);
```

Description

Initializes a new instance of the **System.Web.UI.WebControls.DayRenderEventArgs** class.

Use this constructor to create and initialize a new instance of the **System.Web.UI.WebControls.DayRenderEventArgs** class. A **System.Web.UI.WebControls.TableCell** object that represents a cell in the **System.Web.UI.WebControls.Calendar** control. A **System.Web.UI.WebControls.CalendarDay** object that represents the day to render in the **System.Web.UI.WebControls.Calendar** control.

Cell

ToString

```
[C#] public TableCell Cell {get;}
[C++] public: __property TableCell* get_Cell();
[VB] Public ReadOnly Property Cell As TableCell
[JScript] public function get Cell() : TableCell;
```

Description

Gets the **System.Web.UI.WebControls.TableCell** object that represents the cell being rendered in the **System.Web.UI.WebControls.Calendar** control.

Use the **System.Web.UI.WebControls.DayRenderEventArgs.Cell** property to programmatically control the cell being rendered in the **System.Web.UI.WebControls.Calendar** control.

Day

ToString

```
[C#] public CalendarDay Day {get;}
[C++] public: __property CalendarDay* get_Day();
[VB] Public ReadOnly Property Day As CalendarDay
[JScript] public function get Day() : CalendarDay;
```

Description

Gets the **System.Web.UI.WebControls.CalendarDay** that represents the day being rendered in the **System.Web.UI.WebControls.Calendar** control.

Use the **System.Web.UI.WebControls.DayRenderEventArgs.Day** property to get information about the day being rendered in the **System.Web.UI.WebControls.Calendar** control.

DayRenderEventHandler delegate (System.Web.UI.WebControls)

ToString

Description

Represents the method that will handle the **System.Web.UI.WebControls.Calendar.DayRender** event of the **System.Web.UI.WebControls.Calendar** control. The source of the event. A **System.Web.UI.WebControls.DayRenderEventArgs** that contains the event data.

Although data binding is not supported for the **System.Web.UI.WebControls.Calendar** control, it is possible to modify the content and formatting of the individual date cells. Before the **System.Web.UI.WebControls.Calendar** control is displayed on the Web page, it creates and assembles the components that make up the control. The **System.Web.UI.WebControls.Calendar.DayRender** event is raised when each date cell in **System.Web.UI.WebControls.Calendar** control is created. You can control the contents and formatting of a date cell when it is created by providing code in the event handler for the **System.Web.UI.WebControls.Calendar.DayRender** event. For additional information on customizing the contents of a date cell, see

System.Web.UI.WebControls.Calendar.OnDayRender(System.Web.UI.WebControls.TableCell,System.Web.UI.WebControls.CalendarDay) .

DropDownList class (System.Web.UI.WebControls)

ToString

Description

Represents a control that allows the user to select a single item from a drop-down list.

Use the **System.Web.UI.WebControls.DropDownList** control to create a single selection drop-down list control. You can control the appearance of the **System.Web.UI.WebControls.DropDownList** control by setting the **System.Web.UI.WebControls.DropDownList.BorderColor** , **System.Web.UI.WebControls.DropDownList.BorderStyle** , and **System.Web.UI.WebControls.DropDownList.BorderWidth** properties.

DropDownList

Example Syntax:

ToString

```
[C#] public DropDownList();
[C++] public: DropDownList();
[VB] Public Sub New()
[JScript] public function DropDownList();
```

Description

Initializes a new instance of the **System.Web.UI.WebControls.DropDownList** class.

Use this constructor to create and initialize a new instance of the **System.Web.UI.WebControls.DropDownList** class.

AccessKey

Attributes

AutoPostBack

BackColor

BorderColor

ToString

Description

Gets or sets the border color of the control.

The **System.Web.UI.WebControls.DropDownList.BorderColor** property is inherited from the **System.Web.UI.WebControls.WebControl** class and is not applicable to the **System.Web.UI.WebControls.DropDownList** control.

BorderStyle

ToString

[C#] public override BorderStyle BorderStyle {get; set;}

[C++] public: __property virtual BorderStyle get_BorderStyle();public: __property virtual void set_BorderStyle(BorderStyle);

[VB] Overrides Public Property BorderStyle As BorderStyle

[JScript] public function get BorderStyle() : BorderStyle;public function set BorderStyle(BorderStyle);

Description

Gets or sets the border style of the control.

The **System.Web.UI.WebControls.DropDownList.BorderStyle** property is inherited from the **System.Web.UI.WebControls.WebControl** class and is not applicable to the **System.Web.UI.WebControls.DropDownList** control.

BorderWidth

ToString

[C#] public override Unit BorderWidth {get; set;}

[C++] public: __property virtual Unit get_BorderWidth();public: __property virtual void set_BorderWidth(Unit);

[VB] Overrides Public Property BorderWidth As Unit

[JScript] public function get BorderWidth() : Unit;public function set BorderWidth(Unit);

Description

Gets or sets the border width for the control.

The **System.Web.UI.WebControls.DropDownList.BorderWidth** property is inherited from the **System.Web.UI.WebControls.WebControl** class and is not applicable to the **System.Web.UI.WebControls.DropDownList** control.

ChildControlsCreated

ClientID

Context

Controls

ControlStyle

ControlStyleCreated

CssClass

DataMember

DataSource

DataTextField

DataTextFormatString

DataValueField

Enabled

EnableViewState

Events

Font

ForeColor

HasChildViewState

Height

ID

IsTrackingViewState

Items

NamingContainer

Page

Parent

SelectedIndex

ToString

Description

Gets or sets the index of the selected item in the **System.Web.UI.WebControls.DropDownList** control.

Use the **System.Web.UI.WebControls.DropDownList.SelectedIndex** property to programmatically specify or determine the index of the selected item from the **System.Web.UI.WebControls.DropDownList** control. An item is always selected in the **System.Web.UI.WebControls.DropDownList** control. You cannot deselect every item in the list at the same time.

SelectedItem

Site

Style

TabIndex

TagKey

TagName

TemplateSourceDirectory

ToolTip

ToString

Description

Gets or sets the ToolTip text displayed when the mouse pointer rests over the control.

The **System.Web.UI.WebControls.DropDownList.ToolTip** property is inherited from the **System.Web.UI.WebControls.WebControl** class and is not applicable to the **System.Web.UI.WebControls.DropDownList** control.

UniqueID

ViewState

ViewStateIgnoresCase

Visible

Width

AddAttributesToRender

[C#] protected override void AddAttributesToRender(HtmlTextWriter writer);

[C++] protected: void AddAttributesToRender(HtmlTextWriter* writer);

[VB] Overrides Protected Sub AddAttributesToRender(ByVal writer As HtmlTextWriter)

[JScript] protected override function AddAttributesToRender(writer : HtmlTextWriter);

Description

Adds the properties of the **System.Web.UI.WebControls.DropDownList** control to the output stream for rendering on the client. The output stream for rendering on the client.

CreateControlCollection

[C#] protected override ControlCollection CreateControlCollection();

[C++] protected: ControlCollection* CreateControlCollection();

[VB] Overrides Protected Function CreateControlCollection() As ControlCollection

[JScript] protected override function CreateControlCollection() : ControlCollection;

Description

RenderContents

[C#] protected override void RenderContents(HtmlTextWriter writer);

[C++] protected: void RenderContents(HtmlTextWriter* writer);

[VB] Overrides Protected Sub RenderContents(ByVal writer As HtmlTextWriter)

[JScript] protected override function RenderContents(writer : HtmlTextWriter);

Description

Displays the **System.Web.UI.WebControls.DropDownList** control on the client. The output stream for rendering on the client.

IPostBackDataHandler.LoadPostData

[C#] bool IPostBackDataHandler.LoadPostData(string postDataKey, NameValueCollection postCollection);

[C++] bool IPostBackDataHandler::LoadPostData(String* postDataKey, NameValueCollection* postCollection);

[VB] Function LoadPostData(ByVal postDataKey As String, ByVal postCollection As NameValueCollection) As Boolean Implements

IPostBackDataHandler.LoadPostData

[JScript] function IPostBackDataHandler.LoadPostData(postDataKey : String, postCollection : NameValueCollection) : Boolean;

IPostBackDataHandler.RaisePostDataChangedEvent

[C#] void IPostBackDataHandler.RaisePostDataChangedEvent();

[C++] void IPostBackDataHandler::RaisePostDataChangedEvent();

[VB] Sub RaisePostDataChangedEvent() Implements IPostBackDataHandler.RaisePostDataChangedEvent

[JScript] function IPostBackDataHandler.RaisePostDataChangedEvent();

EditCommandColumn class (System.Web.UI.WebControls)

TrackViewState

Description

A special column type for the **System.Web.UI.WebControls.DataGrid** control that contains the **Edit** command buttons for editing data items in each row.

Use the **System.Web.UI.WebControls.EditCommandColumn** class to create a special column for the **System.Web.UI.WebControls.DataGrid** control that contains the **Edit** , **Update** , and **Cancel** command buttons for each data row in the grid. These buttons allow you to edit the values of a row in the **System.Web.UI.WebControls.DataGrid** control.

EditCommandColumn

Example Syntax:

TrackViewState

[C#] public EditCommandColumn();

[C++] public: EditCommandColumn();

[VB] Public Sub New()

[JScript] public function EditCommandColumn();

Description

Initializes a new instance of the **System.Web.UI.WebControls.EditCommandColumn** class.

Use this constructor to create and initialize a new instance of the **System.Web.UI.WebControls.EditCommandColumn** class.

ButtonType

TrackViewState

[C#] public virtual ButtonColumnType ButtonType {get; set;}

[C++] public: __property virtual ButtonColumnType get_ButtonType();public: __property virtual void set_ButtonType(ButtonColumnType);

[VB] Overridable Public Property ButtonType As ButtonColumnType

[JScript] public function get ButtonType() : ButtonColumnType;public function set ButtonType(ButtonColumnType);

Description

Gets or sets the button type for the column.

Use the **System.Web.UI.WebControls.EditCommandColumn.ButtonType** property to specify whether the buttons in the column display as push buttons or hyperlinks.

CancelText

TrackViewState

[C#] public virtual string CancelText {get; set;}

[C++] public: __property virtual String* get_CancelText();public: __property virtual void set_CancelText(String*);

[VB] Overridable Public Property CancelText As String

[JScript] public function get CancelText() : String;public function set CancelText(String);

Description

Gets or sets the text to display for the **Cancel** command button in the **System.Web.UI.WebControls.EditCommandColumn** .

Use the **System.Web.UI.WebControls.EditCommandColumn.CancelText** property to specify the text to display for the **Cancel** command button in the **System.Web.UI.WebControls.EditCommandColumn** .

DesignMode

EditText

TrackViewState

Description

Gets or sets the text to display for the **Edit** command button in the **System.Web.UI.WebControls.EditCommandColumn** .

Use the **System.Web.UI.WebControls.EditCommandColumn.EditText** property to specify the text to display for the **Edit** command button in the **System.Web.UI.WebControls.EditCommandColumn** .

FooterStyle

FooterText

HeaderImageUrl

HeaderStyle

HeaderText

IsTrackingViewState

ItemStyle

Owner

SortExpression

UpdateText

TrackViewState

Description

Gets or sets the text to display for the **Update** command button in the **System.Web.UI.WebControls.EditCommandColumn** .

Use the **System.Web.UI.WebControls.EditCommandColumn.UpdateText** property to specify the text to display for the **Update** command button in the **System.Web.UI.WebControls.EditCommandColumn** .

ViewState

Visible

InitializeCell

[C#] public override void InitializeCell(TableCell cell, int columnIndex, ListItemType itemType);

[C++] public: void InitializeCell(TableCell* cell, int columnIndex, ListItemType itemType);

[VB] Overrides Public Sub InitializeCell(ByVal cell As TableCell, ByVal columnIndex As Integer, ByVal itemType As ListItemType)

[JScript] public override function InitializeCell(cell : TableCell, columnIndex : int, itemType : ListItemType);

Description

Initializes a cell within the column. A **System.Web.UI.WebControls.TableCell** that contains information about the cell to initialize. The column number where the cell is located. One of the **System.Web.UI.WebControls.ListItemType** values.

FirstDayOfWeek enumeration (System.Web.UI.WebControls)

TrackViewState

Description

Specifies the day to display as the first day of the week on the **System.Web.UI.WebControls.Calendar** control.

The **System.Web.UI.WebControls.FirstDayOfWeek** enumeration represents the values that specify which day to display as the first day of the week on the **System.Web.UI.WebControls.Calendar** control.

TrackViewState

[C#] public const FirstDayOfWeek Default;

[C++] public: const FirstDayOfWeek Default;

[VB] Public Const Default As FirstDayOfWeek

[JScript] public var Default : FirstDayOfWeek;

Description

The first day of the week is specified by the system settings.

TrackViewState

[C#] public const FirstDayOfWeek Friday;

[C++] public: const FirstDayOfWeek Friday;

[VB] Public Const Friday As FirstDayOfWeek

[JScript] public var Friday : FirstDayOfWeek;

Description

The first day of the week is Friday.

TrackViewState

```
[C#] public const FirstDayOfWeek Monday;
[C++] public: const FirstDayOfWeek Monday;
[VB] Public Const Monday As FirstDayOfWeek
[JScript] public var Monday : FirstDayOfWeek;
```

Description

The first day of the week is Monday.

TrackViewState

```
[C#] public const FirstDayOfWeek Saturday;
[C++] public: const FirstDayOfWeek Saturday;
[VB] Public Const Saturday As FirstDayOfWeek
[JScript] public var Saturday : FirstDayOfWeek;
```

Description

The first day of the week is Saturday.

TrackViewState

```
[C#] public const FirstDayOfWeek Sunday;
[C++] public: const FirstDayOfWeek Sunday;
[VB] Public Const Sunday As FirstDayOfWeek
[JScript] public var Sunday : FirstDayOfWeek;
```

Description

The first day of the week is Sunday.

TrackViewState

[C#] public const FirstDayOfWeek Thursday;
[C++] public: const FirstDayOfWeek Thursday;
[VB] Public Const Thursday As FirstDayOfWeek
[JScript] public var Thursday : FirstDayOfWeek;

Description

The first day of the week is Thursday.

TrackViewState

[C#] public const FirstDayOfWeek Tuesday;
[C++] public: const FirstDayOfWeek Tuesday;
[VB] Public Const Tuesday As FirstDayOfWeek
[JScript] public var Tuesday : FirstDayOfWeek;

Description

The first day of the week is Tuesday.

TrackViewState

[C#] public const FirstDayOfWeek Wednesday;
[C++] public: const FirstDayOfWeek Wednesday;

[VB] Public Const Wednesday As FirstDayOfWeek

[JScript] public var Wednesday : FirstDayOfWeek;

Description

The first day of the week is Wednesday.

FontInfo class (System.Web.UI.WebControls)

ToString

Description

Encapsulates the font properties of text. This class cannot be inherited.

Use the **System.Web.UI.WebControls.FontInfo** class to encapsulate the font properties of text. You can specify the font name and the font size. You can also specify whether the style of the font is bold, italic, overlined, strikethrough, or underlined.

Bold

ToString

[C#] public bool Bold {get; set;}

[C++] public: __property bool get_Bold();public: __property void set_Bold(bool);

[VB] Public Property Bold As Boolean

[JScript] public function get Bold() : Boolean;public function set Bold(Boolean);

Description

Gets or sets a value that indicates whether the font is bold.

Use the **System.Web.UI.WebControls.FontInfo.Bold** property to specify or determine whether the font is bold.

Italic

ToString

[C#] public bool Italic {get; set;}

[C++] public: __property bool get_Italic();public: __property void set_Italic(bool);

[VB] Public Property Italic As Boolean

[JScript] public function get Italic() : Boolean;public function set Italic(Boolean);

Description

Gets or sets a value that indicates whether the font is italic.

Use the **System.Web.UI.WebControls.FontInfo.Italic** property to specify or determine whether the font is italic.

Name

ToString

[C#] public string Name {get; set;}

[C++] public: __property String* get_Name();public: __property void set_Name(String*);

[VB] Public Property Name As String

[JScript] public function get Name() : String;public function set Name(String);

Description

Gets or sets the primary font name.

Use the **System.Web.UI.WebControls.FontInfo.Name** property to specify or determine the primary font name. The primary font name determines the font that is used to display text in the control associated with the **System.Web.UI.WebControls.FontInfo** .

Names

ToString

[C#] public string[] Names {get; set;}

[C++] public: __property String* get_Names();public: __property void set_Names(String* __gc[]);

[VB] Public Property Names As String ()

[JScript] public function get Names() : String[];public function set Names(String[]);

Description

Gets or sets an ordered array of font names.

Use the **System.Web.UI.WebControls.FontInfo.Names** property to specify or determine an ordered array of font names for a **System.Web.UI.WebControls.FontInfo** . The **System.Web.UI.WebControls.FontInfo.Names** property is commonly used to store a list of available font names.

Overline

ToString

[C#] public bool Overline {get; set;}

[C++] public: __property bool get_Overline();public: __property void set_Overline(bool);

[VB] Public Property Overline As Boolean

[JScript] public function get Overline() : Boolean;public function set Overline(Boolean);

Description

Gets or sets a value that indicates whether the font is overlined.

Use the **System.Web.UI.WebControls.FontInfo.Overline** property to specify or determine whether the font contains a line above the text.

Size

ToString

[C#] public FontUnit Size {get; set;}

[C++] public: __property FontUnit get_Size();public: __property void set_Size(FontUnit);

[VB] Public Property Size As FontUnit

[JScript] public function get Size() : FontUnit;public function set Size(FontUnit);

Description

Gets or sets the font size.

Use the **System.Web.UI.WebControls.FontInfo.Size** property to specify the size of the font.

Strikeout

ToString

[C#] public bool Strikeout {get; set;}

[C++] public: __property bool get_Strikeout();public: __property void set_Strikeout(bool);

[VB] Public Property Strikeout As Boolean

[JScript] public function get Strikeout() : Boolean;public function set Strikeout(Boolean);

Description

Gets or sets a value that indicates whether the font is strikethrough.

Use the **System.Web.UI.WebControls.FontInfo.Strikeout** property to specify or determine whether the font contains a line through the text.

Underline

ToString

[C#] public bool Underline {get; set;}

[C++] public: __property bool get_Underline();public: __property void set_Underline(bool);

[VB] Public Property Underline As Boolean

[JScript] public function get Underline() : Boolean;public function set Underline(Boolean);

Description

Gets or sets a value that indicates whether the font is underlined.

Use the **System.Web.UI.WebControls.FontInfo.Underline** property to specify or determine whether the font contains a line under the text.

CopyFrom

```
[C#] public void CopyFrom(FontInfo f);
[C++] public: void CopyFrom(FontInfo* f);
[VB] Public Sub CopyFrom(ByVal f As FontInfo)
[JScript] public function CopyFrom(f : FontInfo);
```

Description

Duplicates the font properties of the specified **System.Web.UI.WebControls.FontInfo** into the current instance of the **System.Web.UI.WebControls.FontInfo** class.

Use the **System.Web.UI.WebControls.FontInfo.CopyFrom(System.Web.UI.WebControls.FontInfo)** method to duplicate the font properties of the specified **System.Web.UI.WebControls.FontInfo** into the current instance of the **System.Web.UI.WebControls.FontInfo** class. A **System.Web.UI.WebControls.FontInfo** that contains the font properties to duplicate.

MergeWith

```
[C#] public void MergeWith(FontInfo f);
[C++] public: void MergeWith(FontInfo* f);
[VB] Public Sub MergeWith(ByVal f As FontInfo)
```

[JScript] public function MergeWith(f : FontInfo);

Description

Combines the font properties of the specified **System.Web.UI.WebControls.FontInfo** with the current instance of the **System.Web.UI.WebControls.FontInfo** class.

Use the **System.Web.UI.WebControls.FontInfo.MergeWith(System.Web.UI.WebControls.FontInfo)** method to combine the font properties of the specified **System.Web.UI.WebControls.FontInfo** with the current instance of the **System.Web.UI.WebControls.FontInfo** class. A **System.Web.UI.WebControls.FontInfo** that contains the font properties to combine.

ShouldSerializeNames

[C#] public bool ShouldSerializeNames();
[C++] public: bool ShouldSerializeNames();
[VB] Public Function ShouldSerializeNames() As Boolean
[JScript] public function ShouldSerializeNames() : Boolean;

Description

Determines whether the **System.Web.UI.WebControls.FontInfo.Names** property contains enough entries to serialize.

Return Value: **true** if the **System.Web.UI.WebControls.FontInfo.Names** property contains enough entries to serialize; otherwise, **false** .

Use the **System.Web.UI.WebControls.FontInfo.ShouldSerializeNames** method to determine whether the **System.Web.UI.WebControls.FontInfo.Names** property contains enough entries to serialize.

ToString

[C#] public override string ToString();

[C++] public: String* ToString();

[VB] Overrides Public Function ToString() As String

[JScript] public override function ToString() : String;

Description

Returns a string that contains the font name and size for an instance of the **System.Web.UI.WebControls.FontInfo** class.

Return Value: A string that contains the font name and size for an instance of the **System.Web.UI.WebControls.FontInfo** class.

Use the **System.Web.UI.WebControls.FontInfo.ToString** method to create a string that contains the font name and size, separated by a comma, for an instance of the **System.Web.UI.WebControls.FontInfo** class.

FontNamesConverter class (System.Web.UI.WebControls)

ToString

Description

Converts a string containing a list of font names to an array of strings containing the individual names. It also performs the reverse function.

Use the **System.Web.UI.WebControls.FontNamesConverter.ConvertFrom(System.ComponentModel.ITypeDescriptorContext,System.Globalization.CultureInfo,System.Object)** method of this class to convert a single string containing a list of font names to an array of strings containing the individual names. Each font name in the string must be separated by a comma. For example, the string, "arial, times new roman, verdana", converts to an array that contains the strings "arial", "times new roman", and "verdana". Notice the commas are removed along with any white space at the beginning or end of the font name. White space in the middle of a font name is not removed.

FontNamesConverter

Example Syntax:

ToString

[C#] public FontNamesConverter();

[C++] public: FontNamesConverter();

[VB] Public Sub New()

[JScript] public function FontNamesConverter();

CanConvertFrom

[C#] public override bool CanConvertFrom(ITypeDescriptorContext context, Type sourceType);

[C++] public: bool CanConvertFrom(ITypeDescriptorContext* context, Type* sourceType);

[VB] Overrides Public Function CanConvertFrom(ByVal context As ITypeDescriptorContext, ByVal sourceType As Type) As Boolean

[JScript] public override function CanConvertFrom(context : ITypeDescriptorContext, sourceType : Type) : Boolean;

Description

Determines whether this converter can convert an object of the specified data type to an array of strings containing individual font names.

Return Value: **true** if the type can be converted; otherwise, **false** .

Use the **System.Web.UI.WebControls.FontNamesConverter.CanConvertFrom(System.ComponentModel.ITypeDescriptorContext,System.Type)** method to determine whether the specified data type can be converted to an array of strings containing individual font names. A **System.ComponentModel.ITypeDescriptorContext** that provides information about the context of a type converter. You can optionally pass in **null** for this parameter. A **System.Type** that represents the data type to convert from. This parameter must be set to the **string** data type.

ConvertFrom

[C#] public override object ConvertFrom(ITypeDescriptorContext context, CultureInfo culture, object value);

[C++] public: Object* ConvertFrom(ITypeDescriptorContext* context, CultureInfo* culture, Object* value);

[VB] Overrides Public Function ConvertFrom(ByVal context As ITypeDescriptorContext, ByVal culture As CultureInfo, ByVal value As Object) As Object

[JScript] public override function ConvertFrom(context : ITypeDescriptorContext, culture : CultureInfo, value : Object) : Object;

Description

Converts a string that represents a list of font names into an array of strings containing individual font names.

Return Value: A **System.Object** that represents the array of strings containing the individual font names.

Use the **System.Web.UI.WebControls.FontNamesConverter.ConvertFrom(System.ComponentModel.ITypeDescriptorContext,System.Globalization.CultureInfo,System.Object)** method to convert a single **string** containing a list of font names to an array of strings containing the individual names. Each font name in the string must be separated by a comma. For example, the string, "arial, times new roman, verdana", converts to an array that contains the strings "arial", "times new roman", and "verdana". Notice that the commas are removed along with any white space at the beginning or end of the font name. White space in the middle of a font name is not removed. A **System.ComponentModel.ITypeDescriptorContext** that provides information about the context of a type converter. This parameter is not used in this method. It is reserved for future versions of this method. You can optionally pass in **null** for this parameter. A **System.Globalization.CultureInfo** object that represents information about a culture such as language, calendar system, and so on. This parameter is not used in this method. It is reserved for future versions of this method. You can optionally pass in **null** for this parameter. A **System.Object** that represents the source string to convert from.

ConvertTo

[C#] public override object ConvertTo(ITypeDescriptorContext context, CultureInfo culture, object value, Type destinationType);

[C++] public: Object* ConvertTo(ITypeDescriptorContext* context, CultureInfo* culture, Object* value, Type* destinationType);

[VB] Overrides Public Function ConvertTo(ByVal context As ITypeDescriptorContext, ByVal culture As CultureInfo, ByVal value As Object, ByVal destinationType As Type) As Object

[JScript] public override function ConvertTo(context : ITypeDescriptorContext, culture : CultureInfo, value : Object, destinationType : Type) : Object;

Description

Creates a string that represents a list of font names from an array of strings containing individual font names.

Return Value: A **System.Object** that represents a string containing a list of font names.

Use the **System.Web.UI.WebControls.FontNamesConverter.ConvertTo(System.ComponentModel.ITypeDescriptorContext,System.Globalization.CultureInfo,System.Object,System.Type)** method to convert an array of strings containing the individual font names to a single string containing a list of the names. For example, an array that contains the strings "arial", "times new roman", and "verdana" converts to the string, "arial,times new roman,verdana". Notice that commas are automatically inserted between the font names without any white space. A **System.ComponentModel.ITypeDescriptorContext** object that provides information about the context of a type converter. This parameter is not used in this method. It is reserved for future versions of this method. You can optionally pass in **null** for this parameter. A **System.Globalization.CultureInfo** object that represents information about a culture such as language, calendar system, and so on. This parameter is not used in this method. It is reserved for future versions of this method. You can optionally pass in **null** for this parameter. A **System.Object** that represents the source array of strings to convert from. A **System.Type** object that represents the data type to convert to. This parameter must be set to the **string** data type.

FontSize enumeration (System.Web.UI.WebControls)

ToString

Description

Specifies the font sizes defined by HTML 4.0.

The **System.Web.UI.WebControls.FontSize** enumeration represents the font sizes defined by HTML 4.0. The font size can be an absolute or relative size.

ToString

[C#] public const FontSize AsUnit;

[C++] public: const FontSize AsUnit;

[VB] Public Const AsUnit As FontSize

[JScript] public var AsUnit : FontSize;

Description

The font size is specified by a point value.

ToString

[C#] public const FontSize Large;

[C++] public: const FontSize Large;

[VB] Public Const Large As FontSize

[JScript] public var Large : FontSize;

Description

The font size is two sizes larger than the base font size.

ToString

[C#] public const FontSize Larger;

[C++] public: const FontSize Larger;

[VB] Public Const Larger As FontSize

[JScript] public var Larger : FontSize;

Description

The font size is one size larger than the parent element.

ToString

```
[C#] public const FontSize Medium;
[C++] public: const FontSize Medium;
[VB] Public Const Medium As FontSize
[JScript] public var Medium : FontSize;
```

Description

The font size is one size larger than the default font size.

ToString

```
[C#] public const FontSize NotSet;
[C++] public: const FontSize NotSet;
[VB] Public Const NotSet As FontSize
[JScript] public var NotSet : FontSize;
```

Description

The font size is not set.

ToString

```
[C#] public const FontSize Small;
[C++] public: const FontSize Small;
[VB] Public Const Small As FontSize
[JScript] public var Small : FontSize;
```

Description

The base font size determined by the browser.

ToString

[C#] public const FontSize Smaller;

[C++] public: const FontSize Smaller;

[VB] Public Const Smaller As FontSize

[JScript] public var Smaller : FontSize;

Description

The font size is one size smaller than the parent element.

ToString

[C#] public const FontSize XLarge;

[C++] public: const FontSize XLarge;

[VB] Public Const XLarge As FontSize

[JScript] public var XLarge : FontSize;

Description

The font size is three sizes larger than the base font size.

ToString

[C#] public const FontSize XSmall;

[C++] public: const FontSize XSmall;

[VB] Public Const XSmall As FontSize

[JScript] public var XSmall : FontSize;

Description

The font size is one size smaller than the base font size.

ToString

[C#] public const FontSize XXLarge;

[C++] public: const FontSize XXLarge;

[VB] Public Const XXLarge As FontSize

[JScript] public var XXLarge : FontSize;

Description

The font size is four sizes larger than the base font size.

ToString

[C#] public const FontSize XXSmall;

[C++] public: const FontSize XXSmall;

[VB] Public Const XXSmall As FontSize

[JScript] public var XXSmall : FontSize;

Description

The font size is two sizes smaller than the base font size.

FontUnit structure (System.Web.UI.WebControls)

ToString

Description

Represents the size of a font.

For a list of initial property values for an instance of **System.Web.UI.WebControls.FontUnit** , see the **System.Web.UI.WebControls.FontUnit.#ctor** constructor.

ToString

[C#] public static readonly FontUnit Empty;

[C++] public: static FontUnit Empty;

[VB] Public Shared ReadOnly Empty As FontUnit

[JScript] public static var Empty : FontUnit;

Description

Represents an empty **System.Web.UI.WebControls.FontUnit** object. This field is read only.

Use the **System.Web.UI.WebControls.FontUnit.Empty** field to represent an empty **System.Web.UI.WebControls.FontUnit** object. No HTML rendered output is created when this field is used.

ToString

[C#] public static readonly FontUnit Large;

[C++] public: static FontUnit Large;

[VB] Public Shared ReadOnly Large As FontUnit

[JScript] public static var Large : FontUnit;

Description

Represents a **System.Web.UI.WebControls.FontUnit** object with the **System.Web.UI.WebControls.FontUnit.Type** property set to **FontSize.Large** font. This field is read only.

Use the **System.Web.UI.WebControls.FontUnit.Large** field to represent a **System.Web.UI.WebControls.FontUnit** object with the **System.Web.UI.WebControls.FontUnit.Type** property set to **FontSize.Large** .

ToString

[C#] public static readonly FontUnit Larger;

[C++] public: static FontUnit Larger;

[VB] Public Shared ReadOnly Larger As FontUnit

[JScript] public static var Larger : FontUnit;

Description

Represents a **System.Web.UI.WebControls.FontUnit** object with the **System.Web.UI.WebControls.FontUnit.Type** property set to **FontSize.Larger** font. This field is read only.

Use the **System.Web.UI.WebControls.FontUnit.Larger** field to represent a **System.Web.UI.WebControls.FontUnit** object with the **System.Web.UI.WebControls.FontUnit.Type** property set to **FontSize.Larger** .

ToString

[C#] public static readonly FontUnit Medium;

[C++] public: static FontUnit Medium;

[VB] Public Shared ReadOnly Medium As FontUnit

[JScript] public static var Medium : FontUnit;

Description

Represents a **System.Web.UI.WebControls.FontUnit** object with the **System.Web.UI.WebControls.FontUnit.Type** property set to **FontSize.Medium** font. This field is read only.

Use the **System.Web.UI.WebControls.FontUnit.Medium** field to represent a **System.Web.UI.WebControls.FontUnit** object with the **System.Web.UI.WebControls.FontUnit.Type** property set to **FontSize.Medium**

.

ToString

[C#] public static readonly FontUnit Small;

[C++] public: static FontUnit Small;

[VB] Public Shared ReadOnly Small As FontUnit

[JScript] public static var Small : FontUnit;

Description

Represents a **System.Web.UI.WebControls.FontUnit** object with the **System.Web.UI.WebControls.FontUnit.Type** property set to **FontSize.Small** font. This field is read only.

Use the **System.Web.UI.WebControls.FontUnit.Small** field to represent a **System.Web.UI.WebControls.FontUnit** object with the **System.Web.UI.WebControls.FontUnit.Type** property set to **FontSize.Small** .

ToString

[C#] public static readonly FontUnit Smaller;

[C++] public: static FontUnit Smaller;

[VB] Public Shared ReadOnly Smaller As FontUnit

[JScript] public static var Smaller : FontUnit;

Description

Represents a **System.Web.UI.WebControls.FontUnit** object with the **System.Web.UI.WebControls.FontUnit.Type** property set to **FontSize.Smaller** font. This field is read only.

Use the **System.Web.UI.WebControls.FontUnit.Smaller** field to represent a **System.Web.UI.WebControls.FontUnit** object with the **System.Web.UI.WebControls.FontUnit.Type** property set to **FontSize.Smaller**

.

ToString

[C#] public static readonly FontUnit XLarge;

[C++] public: static FontUnit XLarge;

[VB] Public Shared ReadOnly XLarge As FontUnit

[JScript] public static var XLarge : FontUnit;

Description

Represents a **System.Web.UI.WebControls.FontUnit** object with the **System.Web.UI.WebControls.FontUnit.Type** property set to **FontSize.XLarge** font. This field is read only.

Use the **System.Web.UI.WebControls.FontUnit.XLarge** field to represent a **System.Web.UI.WebControls.FontUnit** object with the **System.Web.UI.WebControls.FontUnit.Type** property set to **FontSize.XLarge** .

ToString

```
[C#] public static readonly FontUnit XSmall;
[C++] public: static FontUnit XSmall;
[VB] Public Shared ReadOnly XSmall As FontUnit
[JScript] public static var XSmall : FontUnit;
```

Description

Represents a **System.Web.UI.WebControls.FontUnit** object with the **System.Web.UI.WebControls.FontUnit.Type** property set to **FontSize.XSmall** font. This field is read only.

Use the **System.Web.UI.WebControls.FontUnit.XSmall** field to represent a **System.Web.UI.WebControls.FontUnit** object with the **System.Web.UI.WebControls.FontUnit.Type** property set to **FontSize.XSmall** .

ToString

```
[C#] public static readonly FontUnit XXLarge;
```

[C++] public: static FontUnit XXLarge;

[VB] Public Shared ReadOnly XXLarge As FontUnit

[JScript] public static var XXLarge : FontUnit;

Description

Represents a **System.Web.UI.WebControls.FontUnit** object with the **System.Web.UI.WebControls.FontUnit.Type** property set to **FontSize.XXLarge** font. This field is read only.

Use the **System.Web.UI.WebControls.FontUnit.XXLarge** field to represent a **System.Web.UI.WebControls.FontUnit** object with the **System.Web.UI.WebControls.FontUnit.Type** property set to **FontSize.XXLarge** .

ToString

[C#] public static readonly FontUnit XXSmall;

[C++] public: static FontUnit XXSmall;

[VB] Public Shared ReadOnly XXSmall As FontUnit

[JScript] public static var XXSmall : FontUnit;

Description

Represents a **System.Web.UI.WebControls.FontUnit** object with the **System.Web.UI.WebControls.FontUnit.Type** property set to **FontSize.XXSmall** font. This field is read only.

Use the **System.Web.UI.WebControls.FontUnit.XXSmall** field to represent a **System.Web.UI.WebControls.FontUnit** object with the

System.Web.UI.WebControls.FontUnit.Type property set to **FontSize.XXSmall** .

FontUnit

Example Syntax:

ToString

[C#] public FontUnit(FontSize type);

[C++] public: FontUnit(FontSize type);

[VB] Public Sub New(ByVal type As FontSize)

[JScript] public function FontUnit(type : FontSize); Initializes a new instance of the **System.Web.UI.WebControls.FontUnit** class.

Description

Initializes a new instance of the **System.Web.UI.WebControls.FontUnit** class with the specified **System.Web.UI.WebControls.FontSize** object.

Use this constructor to create and initialize an instance of the **System.Web.UI.WebControls.FontUnit** class using the specified **System.Web.UI.WebControls.FontSize** object. One of the **System.Web.UI.WebControls.FontSize** values.

FontUnit

Example Syntax:

ToString

[C#] public FontUnit(int value);

[C++] public: FontUnit(int value);

[VB] Public Sub New(ByVal value As Integer)

[JScript] public function FontUnit(value : int);

Description

Initializes a new instance of the **System.Web.UI.WebControls.FontUnit** class with the specified font size.

Use this constructor to create and initialize an instance of the **System.Web.UI.WebControls.FontUnit** class using the specified font size. An integer that represents the size of the font.

FontUnit

Example Syntax:

ToString

[C#] public FontUnit(string value);

[C++] public: FontUnit(String* value);

[VB] Public Sub New(ByVal value As String)

[JScript] public function FontUnit(value : String);

Description

Initializes a new instance of the **System.Web.UI.WebControls.FontUnit** class with the specified font value.

Use this constructor to create and initialize an instance of the **System.Web.UI.WebControls.FontUnit** class using the specified font value. A string representation of one of the **System.Web.UI.WebControls.FontSize** value.

FontUnit

Example Syntax:

ToString

[C#] public FontUnit(Unit value);

[C++] public: FontUnit(Unit value);

[VB] Public Sub New(ByVal value As Unit)

[JScript] public function FontUnit(value : Unit);

Description

Initializes a new instance of the **System.Web.UI.WebControls.FontUnit** class with the specified **System.Web.UI.WebControls.Unit** object.

Use this constructor to create and initialize an instance of the **System.Web.UI.WebControls.FontUnit** class using the specified **System.Web.UI.WebControls.Unit** object. A **System.Web.UI.WebControls.Unit** object that specifies the font size.

FontUnit

Example Syntax:

ToString

[C#] public FontUnit(string value, CultureInfo culture);

[C++] public: FontUnit(String* value, CultureInfo* culture);

[VB] Public Sub New(ByVal value As String, ByVal culture As CultureInfo)

[JScript] public function FontUnit(value : String, culture : CultureInfo);

Description

Initializes a new instance of the **System.Web.UI.WebControls.FontUnit** class with the specified font value and **System.Globalization.CultureInfo** object.

Use this constructor to create and initialize an instance of the **System.Web.UI.WebControls.FontUnit** class using the specified font value and **System.Globalization.CultureInfo** object. A string representation of one of the **System.Web.UI.WebControls.FontSize** value. A **System.Globalization.CultureInfo** object that represents the culture to create the **System.Web.UI.WebControls.FontUnit** object for.

IsEmpty

ToString

```
[C#] public bool IsEmpty {get;}
[C++] public: __property bool get_IsEmpty();
[VB] Public ReadOnly Property IsEmpty As Boolean
[JScript] public function get IsEmpty() : Boolean;
```

Description

Gets a value that indicates whether the font size has been set.

The **System.Web.UI.WebControls.FontUnit.IsEmpty** property is commonly used to determine whether the font size has been set.

Type

ToString

```
[C#] public FontSize Type {get;}
[C++] public: __property FontSize get_Type();
```

```
[VB] Public ReadOnly Property Type As FontSize
[JScript] public function get Type() : FontSize;
```

Description

Gets a **System.Web.UI.WebControls.FontSize** object that represents the font size.

Use the **System.Web.UI.WebControls.FontUnit.Type** property to determine the font size.

Unit

ToString

```
[C#] public Unit Unit {get;}
[C++] public: __property Unit get_Unit();
[VB] Public ReadOnly Property Unit As Unit
[JScript] public function get Unit() : Unit;
```

Description

Gets a **System.Web.UI.WebControls.Unit** object that represents the font size.

Equals

```
[C#] public override bool Equals(object obj);
[C++] public: bool Equals(Object* obj);
[VB] Overrides Public Function Equals(ByVal obj As Object) As Boolean
[JScript] public override function Equals(obj : Object) : Boolean;
```

Description

Determines whether the specified **System.Object** is equivilent to this instance of the **System.Web.UI.WebControls.FontUnit** class.

Return Value: **true** if the specified **System.Object** is equivilent to this instance of the **System.Web.UI.WebControls.FontUnit** class; otherwise, **false** . A **System.Object** that contains the object to compare to this instance.

GetHashCode

[C#] public override int GetHashCode();

[C++] public: int GetHashCode();

[VB] Overrides Public Function GetHashCode() As Integer

[JScript] public override function GetHashCode() : int;

Description

Returns the hash code for this instance.

Return Value: A 32-bit signed integer hash code.

op_Equality

[C#] public static bool operator ==(FontUnit left, FontUnit right);

[C++] public: static bool op_Equality(FontUnit left, FontUnit right);

[VB] returnValue = FontUnit.op_Equality(left, right)

[JScript] returnValue = left == right;

Description

Compares two **System.Web.UI.WebControls.FontUnit** objects for equality.

Return Value: **true** if both **System.Web.UI.WebControls.FontUnit** objects are equal; otherwise, **false** . A **System.Web.UI.WebControls.FontUnit** object that contains font properties on the left of the operator. A **System.Web.UI.WebControls.FontUnit** object that contains font properties on the right of the operator.

op_Implicit

```
[C#] public static implicit operator FontUnit(int n);
[C++] public: static FontUnit op_Implicit(int n);
[VB] returnValue = FontUnit.op_Implicit(n)
[JScript] returnValue = n;
```

Description

Implicitly creates a **System.Web.UI.WebControls.FontUnit** of type **System.Drawing.Point** from an integer value. An integer representing the **System.Drawing.Point** value to convert into a **System.Web.UI.WebControls.FontUnit**.

op_Inequality

```
[C#] public static bool operator !=(FontUnit left, FontUnit right);
[C++] public: static bool op_Inequality(FontUnit left, FontUnit right);
[VB] returnValue = FontUnit.op_Inequality(left, right)
[JScript] returnValue = left != right;
```

Description

Compares two **System.Web.UI.WebControls.FontUnit** objects for inequality.

Return Value: **true** if both **System.Web.UI.WebControls.FontUnit** objects are not equal; otherwise, **false** . A **System.Web.UI.WebControls.FontUnit** that contains font properties on the left of the operator. A **System.Web.UI.WebControls.FontUnit** that contains font properties on the right of the operator.

Parse

[C#] public static FontUnit Parse(string s);

[C++] public: static FontUnit Parse(String* s);

[VB] Public Shared Function Parse(ByVal s As String) As FontUnit

[JScript] public static function Parse(s : String) : FontUnit; Converts the specified string to its **System.Web.UI.WebControls.FontUnit** equivalent.

Description

Converts the specified string to its default **System.Web.UI.WebControls.FontUnit** equivalent. A string representation of one of the **System.Web.UI.WebControls.FontSize** value.

Parse

[C#] public static FontUnit Parse(string s, CultureInfo culture);

[C++] public: static FontUnit Parse(String* s, CultureInfo* culture);

[VB] Public Shared Function Parse(ByVal s As String, ByVal culture As CultureInfo) As FontUnit

[JScript] public static function Parse(s : String, culture : CultureInfo) : FontUnit;

Description

Converts the specified string to its **System.Web.UI.WebControls.FontUnit** equivalent in the specified culture. A string representation of one of the **System.Web.UI.WebControls.FontSize** value. A **System.Globalization.CultureInfo** object that represents the culture of the **System.Web.UI.WebControls.FontUnit** object.

Point

[C#] public static FontUnit Point(int n);

[C++] public: static FontUnit Point(int n);

[VB] Public Shared Function Point(ByVal n As Integer) As FontUnit

[JScript] public static function Point(n : int) : FontUnit;

Description

Creates a **System.Web.UI.WebControls.FontUnit** of type **System.Drawing.Point** from an integer value.

Return Value: A **System.Web.UI.WebControls.FontUnit** that represents the new font size. An integer representing the **System.Drawing.Point** value to convert into a **System.Web.UI.WebControls.FontUnit**.

ToString

[C#] public override string ToString();

[C++] public: String* ToString();

[VB] Overrides Public Function ToString() As String

[JScript] public override function ToString() : String; Converts the **System.Web.UI.WebControls.FontUnit** object to a string representation.

Description

Converts the **System.Web.UI.WebControls.FontUnit** object to the default string representation.

Return Value: A string representation of the **System.Web.UI.WebControls.FontUnit** object.

ToString

[C#] public string ToString(CultureInfo culture);

[C++] public: String* ToString(CultureInfo* culture);

[VB] Public Function ToString(ByVal culture As CultureInfo) As String

[JScript] public function ToString(culture : CultureInfo) : String;

Description

Converts the **System.Web.UI.WebControls.FontUnit** object to a string representation using the specified **System.Globalization.CultureInfo** object. A **System.Globalization.CultureInfo** object that contains the culture.

FontUnitConverter class (System.Web.UI.WebControls)

ToString

Description

Converts a **System.Web.UI.WebControls.FontUnit** to and from a specified data type.

FontUnitConverter

Example Syntax:

ToString

[C#] public FontUnitConverter();

[C++] public: FontUnitConverter();

[VB] Public Sub New()

[JScript] public function FontUnitConverter();

CanConvertFrom

[C#] public override bool CanConvertFrom(ITypeDescriptorContext context, Type sourceType);

[C++] public: bool CanConvertFrom(ITypeDescriptorContext* context, Type* sourceType);

[VB] Overrides Public Function CanConvertFrom(ByVal context As ITypeDescriptorContext, ByVal sourceType As Type) As Boolean

[JScript] public override function CanConvertFrom(context : ITypeDescriptorContext, sourceType : Type) : Boolean;

Description

Determines if the specified data type can be converted to a **System.Web.UI.WebControls.FontUnit** .

Return Value: **true** if the type can be converted; otherwise **false** . An **System.ComponentModel.ITypeDescriptorContext** that provides information about the context of a type converter. A **System.Type** that represents the data type to check.

ConvertFrom

[C#] public override object ConvertFrom(ITypeDescriptorContext context, CultureInfo culture, object value);

[C++] public: Object* ConvertFrom(ITypeDescriptorContext* context, CultureInfo* culture, Object* value);

[VB] Overrides Public Function ConvertFrom(ByVal context As ITypeDescriptorContext, ByVal culture As CultureInfo, ByVal value As Object) As Object

[JScript] public override function ConvertFrom(context : ITypeDescriptorContext, culture : CultureInfo, value : Object) : Object;

Description

Converts the specified **System.Object** into a **System.Web.UI.WebControls.FontUnit** . An **System.ComponentModel.ITypeDescriptorContext** that provides information about the context of a type converter. A **System.Globalization.CultureInfo** object that represents information about a culture such as language, calendar system, and so on. This parameter is not used in this method. It is reserved for future versions of this method. You can optionally pass in **null** for this parameter. The **System.Object** to convert to a **System.Web.UI.WebControls.FontUnit**.

ConvertTo

[C#] public override object ConvertTo(ITypeDescriptorContext context, CultureInfo culture, object value, Type destinationType);

[C++] public: Object* ConvertTo(ITypeDescriptorContext* context, CultureInfo* culture, Object* value, Type* destinationType);

[VB] Overrides Public Function ConvertTo(ByVal context As ITypeDescriptorContext, ByVal culture As CultureInfo, ByVal value As Object, ByVal destinationType As Type) As Object

[JScript] public override function ConvertTo(context : ITypeDescriptorContext, culture : CultureInfo, value : Object, destinationType : Type) : Object;

Description

Converts the specified **System.Web.UI.WebControls.FontUnit** into the specified **System.Type** . An **System.ComponentModel.ITypeDescriptorContext** that provides information about the context of a type converter. A **System.Globalization.CultureInfo** object that represents information about a culture such as language, calendar system, and so on. This parameter is not used in this method. It is reserved for future versions of this method. You can optionally pass in **null** for this parameter. A **System.Object** that represents the source array of strings to convert from. A **System.Type** that represents the data type to convert to.

GetStandardValues

[C#] public override StandardValuesCollection GetStandardValues(ITypeDescriptorContext context);

[C++] public: StandardValuesCollection* GetStandardValues(ITypeDescriptorContext* context);

[VB] Overrides Public Function GetStandardValues(ByVal context As ITypeDescriptorContext) As StandardValuesCollection

[JScript] public override function GetStandardValues(context : ITypeDescriptorContext) : StandardValuesCollection;

Description

Returns a **System.ComponentModel.TypeConverter.StandardValuesCollection** containing standard **System.Web.UI.WebControls.FontUnit** values.

Return Value: A **System.ComponentModel.TypeConverter.StandardValuesCollection** containing **System.Web.UI.WebControls.FontUnit** values. An **System.ComponentModel.ITypeDescriptorContext** that provides information about the context of a type converter.

GetStandardValuesExclusive

[C#] public override bool GetStandardValuesExclusive(ITypeDescriptorContext context);

[C++] public: bool GetStandardValuesExclusive(ITypeDescriptorContext* context);

[VB] Overrides Public Function GetStandardValuesExclusive(ByVal context As ITypeDescriptorContext) As Boolean

[JScript] public override function GetStandardValuesExclusive(context : ITypeDescriptorContext) : Boolean;

Description

Indicates whether the specified context contains exclusive standard values.

Return Value: **false** for all cases. An **System.ComponentModel.ITypeDescriptorContext** that provides information about the context of a type converter.

GetStandardValuesSupported

[C#] public override bool GetStandardValuesSupported(ITypeDescriptorContext context);

[C++] public: bool GetStandardValuesSupported(ITypeDescriptorContext* context);

[VB] Overrides Public Function GetStandardValuesSupported(ByVal context As ITypeDescriptorContext) As Boolean

[JScript] public override function GetStandardValuesSupported(context : ITypeDescriptorContext) : Boolean;

Description

Indicates whether the specified context contains suppurted standard values.

Return Value: **true** for all cases. An

System.ComponentModel.ITypeDescriptorContext that provides information about the context of a type converter.

GridLines enumeration (System.Web.UI.WebControls)

ToString

Description

Specifies the grid line styles for controls displaying items in a table structure.

The **System.Web.UI.WebControls.GridLines** enumeration represents the grid line styles for controls displaying items in a table structure.

ToString

```
[C#] public const GridLines Both;
[C++] public: const GridLines Both;
[VB] Public Const Both As GridLines
[JScript] public var Both : GridLines;
```

Description

Both horizontal and vertical grid lines rendered.

ToString

```
[C#] public const GridLines Horizontal;
[C++] public: const GridLines Horizontal;
[VB] Public Const Horizontal As GridLines
```

[JScript] public var Horizontal : GridLines;

Description

Only horizontal grid lines rendered.

ToString

[C#] public const GridLines None;

[C++] public: const GridLines None;

[VB] Public Const None As GridLines

[JScript] public var None : GridLines;

Description

No grid lines rendered.

ToString

[C#] public const GridLines Vertical;

[C++] public: const GridLines Vertical;

[VB] Public Const Vertical As GridLines

[JScript] public var Vertical : GridLines;

Description

Only vertical grid lines rendered.

HorizontalAlign enumeration (System.Web.UI.WebControls)

ToString

Description

Specifies the horizonal alignment of items within a container.

The **System.Web.UI.WebControls.HorizontalAlign** enumeration represents the horizontal alignment options for items within a container, such as a **System.Web.UI.WebControls.TableCell** .

ToString

```
[C#] public const HorizontalAlign Center;
[C++] public: const HorizontalAlign Center;
[VB] Public Const Center As HorizontalAlign
[JScript] public var Center : HorizontalAlign;
```

Description

The contents of a container are centered.

ToString

```
[C#] public const HorizontalAlign Justify;
[C++] public: const HorizontalAlign Justify;
[VB] Public Const Justify As HorizontalAlign
[JScript] public var Justify : HorizontalAlign;
```

Description

The contents of a container are uniformly spread out and aligned with both the left and right margins.

ToString

[C#] public const HorizontalAlign Left;

[C++] public: const HorizontalAlign Left;

[VB] Public Const Left As HorizontalAlign

[JScript] public var Left : HorizontalAlign;

Description

The contents of a container are left justified.

ToString

[C#] public const HorizontalAlign NotSet;

[C++] public: const HorizontalAlign NotSet;

[VB] Public Const NotSet As HorizontalAlign

[JScript] public var NotSet : HorizontalAlign;

Description

The horizontal alignment is not set.

ToString

[C#] public const HorizontalAlign Right;

[C++] public: const HorizontalAlign Right;

[VB] Public Const Right As HorizontalAlign

[JScript] public var Right : HorizontalAlign;

Description

The contents of a container are right justified.

HyperLink class (System.Web.UI.WebControls)

ToString

Description

A control that displays a link to another Web page.

Use the **System.Web.UI.WebControls.HyperLink** control to create a link to another Web page. The **System.Web.UI.WebControls.HyperLink** control is typically displayed as text specified by the **System.Web.UI.WebControls.HyperLink.Text** property. It can also be displayed as an image specified by the **System.Web.UI.WebControls.HyperLink.ImageUrl** property.

HyperLink

Example Syntax:

ToString

[C#] public HyperLink();

[C++] public: HyperLink();

[VB] Public Sub New()

[JScript] public function HyperLink();

Description

Initializes a new instance of the **System.Web.UI.WebControls.HyperLink** class.

Use this constructor to create and initialize a new instance of the **System.Web.UI.WebControls.HyperLink** control.

AccessKey

Attributes

BackColor

BorderColor

BorderStyle

BorderWidth

ChildControlsCreated

ClientID

Context

Controls

ControlStyle

ControlStyleCreated

CssClass

Enabled

EnableViewState

Events

Font

ForeColor

HasChildViewState

Height

ID

ImageUrl

ToString

Description

Gets or sets the path to an image to display for the **System.Web.UI.WebControls.HyperLink** control.

The **System.Web.UI.WebControls.HyperLink** control can be displayed as text or an image. Use the **System.Web.UI.WebControls.HyperLink.ImageUrl** property to specify an image to display for the **System.Web.UI.WebControls.HyperLink** control.

IsTrackingViewState

NamingContainer

NavigateUrl

ToString

Description

Gets or sets the URL to link to when the **System.Web.UI.WebControls.HyperLink** control is clicked.

Use the **System.Web.UI.WebControls.HyperLink.NavigateUrl** property to specify the URL to navigate to when the **System.Web.UI.WebControls.HyperLink** control is clicked.

Page

Parent

Site

Style

TabIndex

TagKey

TagName

Target

ToString

Description

Gets or sets the target window or frame to display the Web page content linked to when the **System.Web.UI.WebControls.HyperLink** control is clicked.

Use the **System.Web.UI.WebControls.HyperLink.Target** property to specify the frame or window that displays the Web page linked to when the **System.Web.UI.WebControls.HyperLink** control is clicked. The Web page is specified by setting the **System.Web.UI.WebControls.HyperLink.NavigateUrl** property.

TemplateSourceDirectory

Text

ToString

Description

Gets or sets the text caption for the **System.Web.UI.WebControls.HyperLink** control.

The **System.Web.UI.WebControls.HyperLink** control can be displayed as text or an image. Use the **System.Web.UI.WebControls.HyperLink.Text** property to specify the text to display for the **System.Web.UI.WebControls.HyperLink** control.

ToolTip

UniqueID

ViewState

ViewStateIgnoresCase

Visible

Width

AddAttributesToRender

```
[C#] protected override void AddAttributesToRender(HtmlTextWriter writer);
[C++] protected: void AddAttributesToRender(HtmlTextWriter* writer);
[VB] Overrides Protected Sub AddAttributesToRender(ByVal writer As
HtmlTextWriter)
[JScript] protected override function AddAttributesToRender(writer :
HtmlTextWriter);
```

Description

Adds the attribututes of the a **System.Web.UI.WebControls.HyperLink** to the output stream for rendering. The output stream to render on the client.

AddParsedSubObject

[C#] protected override void AddParsedSubObject(object obj);

[C++] protected: void AddParsedSubObject(Object* obj);

[VB] Overrides Protected Sub AddParsedSubObject(ByVal obj As Object)

[JScript] protected override function AddParsedSubObject(obj : Object);

LoadViewState

[C#] protected override void LoadViewState(object savedState);

[C++] protected: void LoadViewState(Object* savedState);

[VB] Overrides Protected Sub LoadViewState(ByVal savedState As Object)

[JScript] protected override function LoadViewState(savedState : Object);

Description

Load previously saved state. Overridden to synchronize Text property with LiteralContent.

RenderContents

[C#] protected override void RenderContents(HtmlTextWriter writer);

[C++] protected: void RenderContents(HtmlTextWriter* writer);

[VB] Overrides Protected Sub RenderContents(ByVal writer As HtmlTextWriter)

[JScript] protected override function RenderContents(writer : HtmlTextWriter);

Description

Displays the **System.Web.UI.WebControls.HyperLink** on a page. The output stream to render on the client.

HyperLinkColumn class (System.Web.UI.WebControls)

TrackViewState

Description

A column type for the **System.Web.UI.WebControls.DataGrid** control that contains a hyperlink for each item in the column.

Use the **System.Web.UI.WebControls.HyperLinkColumn** column type in a **System.Web.UI.WebControls.DataGrid** control to create a hyperlink for each row in the **System.Web.UI.WebControls.DataGrid** control. Set the **System.Web.UI.WebControls.HyperLinkColumn.Text** property to specify the caption text for the hyperlink. To specify the URL to navigate to when the hyperlink is clicked, set the **System.Web.UI.WebControls.HyperLinkColumn.NavigateUrl** property.

HyperLinkColumn

Example Syntax:

TrackViewState

```
[C#] public HyperLinkColumn();
[C++] public: HyperLinkColumn();
[VB] Public Sub New()
[JScript] public function HyperLinkColumn();
```

Description

Initializes a new instance of the **System.Web.UI.WebControls.HyperLinkColumn** class.

Use this constructor to create and initialize a new instance of the **System.Web.UI.WebControls.HyperLinkColumn** class.

DataNavigateUrlField

TrackViewState

[C#] public virtual string DataNavigateUrlField {get; set;}

[C++] public: __property virtual String* get_DataNavigateUrlField();public: __property virtual void set_DataNavigateUrlField(String*);

[VB] Overridable Public Property DataNavigateUrlField As String

[JScript] public function get DataNavigateUrlField() : String;public function set DataNavigateUrlField(String);

Description

Gets or sets the field name from a data source to bind to the URL of the hyperlinks in **System.Web.UI.WebControls.HyperLinkColumn** column.

DataNavigateUrlFormatString

TrackViewState

[C#] public virtual string DataNavigateUrlFormatString {get; set;}

[C++] public: __property virtual String* get_DataNavigateUrlFormatString();public: __property virtual void set_DataNavigateUrlFormatString(String*);

[VB] Overridable Public Property DataNavigateUrlFormatString As String

[JScript] public function get DataNavigateUrlFormatString() : String;public function set DataNavigateUrlFormatString(String);

Description

Gets or sets the string that specifies the display format for the URL of the hyperlinks in the **System.Web.UI.WebControls.HyperLinkColumn** column.

Use the **System.Web.UI.WebControls.HyperLinkColumn.DataNavigateUrlFormatString** property to provide a custom format for the URL of the hyperlinks in the **System.Web.UI.WebControls.HyperLinkColumn** column.

DataTextField

TrackViewState

[C#] public virtual string DataTextField {get; set;}

[C++] public: __property virtual String* get_DataTextField();public: __property virtual void set_DataTextField(String*);

[VB] Overridable Public Property DataTextField As String

[JScript] public function get DataTextField() : String;public function set DataTextField(String);

Description

Gets or sets the field name from a data source to bind to the text caption of the hyperlinks in **System.Web.UI.WebControls.HyperLinkColumn** column.

DataTextFormatString

TrackViewState

[C#] public virtual string DataTextFormatString {get; set;}

[C++] public: __property virtual String* get_DataTextFormatString();public: __property virtual void set_DataTextFormatString(String*);

[VB] Overridable Public Property DataTextFormatString As String

[JScript] public function get DataTextFormatString() : String;public function set DataTextFormatString(String);

Description

Gets or sets the string that specifies the display format for the text caption of the hyperlinks in the **System.Web.UI.WebControls.HyperLinkColumn** column.

Use the **System.Web.UI.WebControls.HyperLinkColumn.DataTextFormatString** property to provide a custom format for the items in the column.

DesignMode

FooterStyle

FooterText

HeaderImageUrl

HeaderStyle

HeaderText

IsTrackingViewState

ItemStyle

NavigateUrl

TrackViewState

Description

Gets or sets the URL to link to when a hyperlink in the column is clicked.

Use the **System.Web.UI.WebControls.HyperLinkColumn.NavigateUrl** property to specify the URL to navigate to when a hyperlink in the column is clicked.

Owner

SortExpression

Target

TrackViewState

Description

Gets or sets the target window or frame to display the Web page content linked to when the hyperlink in the column is clicked.

Use the **System.Web.UI.WebControls.HyperLinkColumn.Target** property to specify the frame or window that displays the Web page linked to when a hyperlink in the column is clicked.

Text

TrackViewState

[C#] public virtual string Text {get; set;}

[C++] public: __property virtual String* get_Text();public: __property virtual void set_Text(String*);

[VB] Overridable Public Property Text As String

[JScript] public function get Text() : String;public function set Text(String);

Description

Gets or sets the text caption to display for the hyperlinks in the column.

Use the **System.Web.UI.WebControls.HyperLinkColumn.Text** property to specify the text caption to display for the hyperlinks in the column.

ViewState

Visible

FormatDataNavigateUrlValue

[C#] protected virtual string FormatDataNavigateUrlValue(object dataUrlValue);

[C++] protected: virtual String* FormatDataNavigateUrlValue(Object* dataUrlValue);

[VB] Overridable Protected Function FormatDataNavigateUrlValue(ByVal dataUrlValue As Object) As String

[JScript] protected function FormatDataNavigateUrlValue(dataUrlValue : Object) : String;

Description

FormatDataTextValue

[C#] protected virtual string FormatDataTextValue(object dataTextValue);

[C++] protected: virtual String* FormatDataTextValue(Object* dataTextValue);

[VB] Overridable Protected Function FormatDataTextValue(ByVal dataTextValue As Object) As String

[JScript] protected function FormatDataTextValue(dataTextValue : Object) : String;

Description

Initialize

[C#] public override void Initialize();

[C++] public: void Initialize();

[VB] Overrides Public Sub Initialize()

[JScript] public override function Initialize();

Description

InitializeCell

[C#] public override void InitializeCell(TableCell cell, int columnIndex, ListItemType itemType);

[C++] public: void InitializeCell(TableCell* cell, int columnIndex, ListItemType itemType);

[VB] Overrides Public Sub InitializeCell(ByVal cell As TableCell, ByVal columnIndex As Integer, ByVal itemType As ListItemType)

[JScript] public override function InitializeCell(cell : TableCell, columnIndex : int, itemType : ListItemType);

Description

Initializes the cell representing this column with the contained hyperlink.

HyperLinks are created for all items in the DataGrid except the Header and Footer items. The cell to be initialized. The index of the column that contains the cell. The type of item that the cell is part of.

HyperLinkControlBuilder class (System.Web.UI.WebControls)

TrackViewState

Description

Interacts with the parser to build a **System.Web.UI.WebControls.HyperLink** control.

To create a custom control builder for a **System.Web.UI.WebControls.HyperLink** derived control, you need to inherit from this class.

HyperLinkControlBuilder

Example Syntax:

TrackViewState

[C#] public HyperLinkControlBuilder();

[C++] public: HyperLinkControlBuilder();

[VB] Public Sub New()

[JScript] public function HyperLinkControlBuilder();

ControlType

FChildrenAsProperties

FIsNonParserAccessor

HasAspCode

ID

InDesigner

NamingContainerType

Parser

TagName

AllowWhitespaceLiterals

[C#] public override bool AllowWhitespaceLiterals();

[C++] public: bool AllowWhitespaceLiterals();

[VB] Overrides Public Function AllowWhitespaceLiterals() As Boolean

[JScript] public override function AllowWhitespaceLiterals() : Boolean;

Description

Gets a value that indicates whether white spaces are allowed in literals for this control.

Return Value: Overloaded to always returns **false** to indicate that white spaces are not allowed.

This method overrides the **System.Web.UI.ControlBuilder.AllowWhitespaceLiterals** property to ignore white space in the **System.Web.UI.WebControls.HyperLink** control.

Image class (System.Web.UI.WebControls)

ToString

Description

Displays an image on a Web page.

Use the **System.Web.UI.WebControls.Image** control to display an image on the Web page. The path to the displayed image is specified by setting the **System.Web.UI.WebControls.Image.ImageUrl** property. You can specify the text to display in place of image when the image is not available by setting the **System.Web.UI.WebControls.Image.AlternateText** property. The alignment of the image in relation to other elements on the Web page is specified by setting **System.Web.UI.WebControls.Image.ImageAlign** property.

Image

Example Syntax:

ToString

```
[C#] public Image();
[C++] public: Image();
[VB] Public Sub New()
[JScript] public function Image();
```

Description

Initializes a new instance of the **System.Web.UI.WebControls.Image** class.

Use this constructor to create and initialize a new instance of the **System.Web.UI.WebControls.Image** class.

AccessKey

AlternateText

ToString

Description

Gets or sets the alternate text displayed in the **System.Web.UI.WebControls.Image** control when the image is unavailable. Browsers that support the ToolTips feature display this text as a ToolTip.

Use this property to specify the text to display if the image specified in the **System.Web.UI.WebControls.Image.ImageUrl** property is not available. In browsers that support the ToolTips feature, this text also displays as a ToolTip.

Attributes

BackColor

BorderColor

BorderStyle

BorderWidth

ChildControlsCreated

ClientID

Context

Controls

ControlStyle

ControlStyleCreated

CssClass

Enabled

ToString

Description

Gets or sets a value indicating whether the control is enabled.

This property is inherited from the **System.Web.UI.WebControls.WebControl** class and is not applicable to the **System.Web.UI.WebControls.Image** control.

EnableViewState

Events

Font

ToString

Description

Gets the font properties for the text associated with the control.

This property is inherited from the **System.Web.UI.WebControls.WebControl** class and is not applicable to the **System.Web.UI.WebControls.Image** control.

ForeColor

HasChildViewState

Height

ID

ImageAlign

ToString

Description

Gets or sets the alignment of the **System.Web.UI.WebControls.Image** control in relation to other elements on the Web page.

Use the **System.Web.UI.WebControls.Image.ImageAlign** property to specify or determine the alignment of the image in relation to other elements on the Web page. The following table lists the possible alignments.

ImageUrl

ToString

[C#] public virtual string ImageUrl {get; set;}

[C++] public: __property virtual String* get_ImageUrl();public: __property virtual void set_ImageUrl(String*);

[VB] Overridable Public Property ImageUrl As String

[JScript] public function get ImageUrl() : String;public function set ImageUrl(String);

Description

Gets or sets the location of an image to display in the **System.Web.UI.WebControls.Image** control.

Use the **System.Web.UI.WebControls.Image.ImageUrl** property to specify the URL of an image to display in the **System.Web.UI.WebControls.Image** control. You can use a relative or an absolute URL. A relative URL relates the location of the image to the location of the Web page without specifying a complete path on the server. The path is relative to the location of the Web page. This makes it easier to move the entire site to another directory on the server without updating the code. An absolute URL provides the complete path, so moving the site to another directory requires that you update the code.

IsTrackingViewState

NamingContainer

Page

Parent

Site

Style

TabIndex

TagKey

TagName

TemplateSourceDirectory

ToolTip

UniqueID

ViewState

ViewStateIgnoresCase

Visible

Width

AddAttributesToRender

```
[C#] protected override void AddAttributesToRender(HtmlTextWriter writer);
[C++] protected: void AddAttributesToRender(HtmlTextWriter* writer);
```

[VB] Overrides Protected Sub AddAttributesToRender(ByVal writer As HtmlTextWriter)

[JScript] protected override function AddAttributesToRender(writer : HtmlTextWriter);

Description

Adds the attributes of an **System.Web.UI.WebControls.Image** to the output stream for rendering on the client. A **System.Web.UI.HtmlTextWriter** that contains the output stream to render on the client browser.

RenderContents

[C#] protected override void RenderContents(HtmlTextWriter writer);

[C++] protected: void RenderContents(HtmlTextWriter* writer);

[VB] Overrides Protected Sub RenderContents(ByVal writer As HtmlTextWriter)

[JScript] protected override function RenderContents(writer : HtmlTextWriter);

Description

ImageAlign enumeration (System.Web.UI.WebControls)

TrackViewState

Description

Specifies the alignment of an image in relation to the text of a Web page.

The **System.Web.UI.WebControls.ImageAlign** enumeration represents the alignment options for an image relative to the text of a Web page.

TrackViewState

```
[C#] public const ImageAlign AbsBottom;
[C++] public: const ImageAlign AbsBottom;
[VB] Public Const AbsBottom As ImageAlign
[JScript] public var AbsBottom : ImageAlign;
```

Description

The lower edge of the image is aligned with the lower edge of the largest element on the same line.

TrackViewState

```
[C#] public const ImageAlign AbsMiddle;
[C++] public: const ImageAlign AbsMiddle;
[VB] Public Const AbsMiddle As ImageAlign
[JScript] public var AbsMiddle : ImageAlign;
```

Description

The middle of the image is aligned with the middle of the largest element on the same line.

TrackViewState

```
[C#] public const ImageAlign Baseline;
[C++] public: const ImageAlign Baseline;
[VB] Public Const Baseline As ImageAlign
```

```
[JScript] public var Baseline : ImageAlign;
```

Description

The lower edge of the image is aligned with the lower edge of the first line of text.

TrackViewState

```
[C#] public const ImageAlign Bottom;
[C++] public: const ImageAlign Bottom;
[VB] Public Const Bottom As ImageAlign
[JScript] public var Bottom : ImageAlign;
```

Description

The lower edge of the image is aligned with the lower edge of the first line of text.

TrackViewState

```
[C#] public const ImageAlign Left;
[C++] public: const ImageAlign Left;
[VB] Public Const Left As ImageAlign
[JScript] public var Left : ImageAlign;
```

Description

The image is aligned on the left edge of the Web page with text wrapping on the right.

TrackViewState

```
[C#] public const ImageAlign Middle;
[C++] public: const ImageAlign Middle;
[VB] Public Const Middle As ImageAlign
[JScript] public var Middle : ImageAlign;
```

Description

The middle of the image is aligned with the lower edge of the first line of text.

TrackViewState

```
[C#] public const ImageAlign NotSet;
[C++] public: const ImageAlign NotSet;
[VB] Public Const NotSet As ImageAlign
[JScript] public var NotSet : ImageAlign;
```

Description

The alignment is not set.

TrackViewState

```
[C#] public const ImageAlign Right;
[C++] public: const ImageAlign Right;
[VB] Public Const Right As ImageAlign
[JScript] public var Right : ImageAlign;
```

Description

The image is aligned on the right edge of the Web page with text wrapping on the left.

TrackViewState

```
[C#] public const ImageAlign TextTop;
[C++] public: const ImageAlign TextTop;
[VB] Public Const TextTop As ImageAlign
[JScript] public var TextTop : ImageAlign;
```

Description

The upper edge of the image is aligned with the upper edge of the highest text on the same line.

TrackViewState

```
[C#] public const ImageAlign Top;
[C++] public: const ImageAlign Top;
[VB] Public Const Top As ImageAlign
[JScript] public var Top : ImageAlign;
```

Description

The upper edge of the image is aligned with the upper edge of the highest element on the same line.

ImageButton class (System.Web.UI.WebControls)

ToString

Description

A control that displays an image and responds to mouse clicks on the image.

Use the **System.Web.UI.WebControls.ImageButton** control to display an image that responds to mouse clicks.

ImageButton

Example Syntax:

ToString

[C#] public ImageButton();

[C++] public: ImageButton();

[VB] Public Sub New()

[JScript] public function ImageButton();

Description

Initializes a new instance of the **System.Web.UI.WebControls.ImageButton** class.

Use this constructor to create and initialize a new instance of the **System.Web.UI.WebControls.ImageButton** class.

AccessKey

AlternateText

Attributes

BackColor

BorderColor

BorderStyle

BorderWidth

CausesValidation

ToString

Description

Gets or sets a value indicating whether validation is performed when the **System.Web.UI.WebControls.ImageButton** control is clicked.

By default, page validation is performed when a **System.Web.UI.WebControls.ImageButton** control is clicked. Page validation determines whether the input controls associated with a validation control on the page all pass the validation rules specified by the validation control.

ChildControlsCreated

ClientID

CommandArgument

ToString

Description

Gets or sets an optional argument that provides additional information about the **System.Web.UI.WebControls.ImageButton.CommandName** property.

Sometimes, multiple **System.Web.UI.WebControls.ImageButton** controls are related and share the same value for the **System.Web.UI.WebControls.ImageButton.CommandName** property, such as **Sort** . Use this property to supplement the **System.Web.UI.WebControls.ImageButton.CommandName** property with additional information about the command to perform, such as **Ascending** . The values of the **System.Web.UI.WebControls.ImageButton.CommandName** and **System.Web.UI.WebControls.ImageButton.CommandArgument** properties are typically used in the **System.Web.UI.WebControls.ImageButton.OnCommand(System.Web.UI.WebControls.CommandEventArgs)** event handler to determine the action to perform when the **System.Web.UI.WebControls.ImageButton** control is clicked.

CommandName

ToString

[C#] public string CommandName {get; set;}

[C++] public: __property String* get_CommandName();public: __property void set_CommandName(String*);

[VB] Public Property CommandName As String

[JScript] public function get CommandName() : String;public function set CommandName(String);

Description

Gets or sets the command name associated with the **System.Web.UI.WebControls.ImageButton** control.

Use this property to specify the command to perform when the **System.Web.UI.WebControls.ImageButton** control is clicked, such as **Sort** , **Cancel** , and **Edit** . This allows multiple **System.Web.UI.WebControls.ImageButton** controls to be placed on the same Web page. The value in this property can then be programmatically identified in the **System.Web.UI.WebControls.ImageButton.OnCommand(System.Web.UI.WebControls.CommandEventArgs)** event handler to determine the appropriate action to perform when each **System.Web.UI.WebControls.ImageButton** control is clicked.

Context

Controls

ControlStyle

ControlStyleCreated

CssClass

Enabled

EnableViewState

Events

Font

ForeColor

HasChildViewState

Height

ID

ImageAlign

ImageUrl

IsTrackingViewState

NamingContainer

Page

Parent

Site

Style

TabIndex

TagKey

ToString

Description

Gets a value that represents the tag HtmlTextWriterTag.Input. This property is read-only.

Overrides the base implementation and returns the tag HtmlTextWriterTag.Input instead of the default HtmlTextWriterTag.Img Gets a value that represents the tag HtmlTextWriterTag.Input. This property is read-only.

TagName

TemplateSourceDirectory

ToolTip

UniqueID

ViewState

ViewStateIgnoresCase

Visible

Width

ToString

Description

Occurs when the **System.Web.UI.WebControls.ImageButton** is clicked.

The **System.Web.UI.WebControls.ImageButton.Click** event is raised when the **System.Web.UI.WebControls.ImageButton** control is clicked.

ToString

[C#] public event CommandEventHandler Command;

[C++] public: __event CommandEventHandler* Command;

[VB] Public Event Command As CommandEventHandler

Description

Occurs when the **System.Web.UI.WebControls.ImageButton** is clicked.

The **System.Web.UI.WebControls.ImageButton.Command** event is raised when an **System.Web.UI.WebControls.ImageButton** control is clicked.

AddAttributesToRender

[C#] protected override void AddAttributesToRender(HtmlTextWriter writer);

[C++] protected: void AddAttributesToRender(HtmlTextWriter* writer);

[VB] Overrides Protected Sub AddAttributesToRender(ByVal writer As HtmlTextWriter)

[JScript] protected override function AddAttributesToRender(writer : HtmlTextWriter);

Description

Adds the attributes of an **System.Web.UI.WebControls.ImageButton** to the output stream for rendering on the client. The output stream to render on the client.

OnClick

[C#] protected virtual void OnClick(ImageClickEventArgs e);
[C++] protected: virtual void OnClick(ImageClickEventArgs* e);
[VB] Overridable Protected Sub OnClick(ByVal e As ImageClickEventArgs)
[JScript] protected function OnClick(e : ImageClickEventArgs);

Description

Raises the **System.Web.UI.WebControls.ImageButton.Click** event and allows you to handle the **System.Web.UI.WebControls.ImageButton.Click** event directly.

The **System.Web.UI.WebControls.ImageButton.Click** event is raised when the **System.Web.UI.WebControls.ImageButton** control is clicked. By using the **System.Web.UI.WebControls.ImageButton.OnClick(System.Web.UI.ImageClickEventArgs)** event handler, you can programmatically determine the coordinates where the image is clicked. You can then code a response, based on the values of these coordinates. Note the origin (0, 0) is located at the upper left corner of the image. A **System.Web.UI.ImageClickEventArgs** that contains the event data.

OnCommand

```
[C#] protected virtual void OnCommand(CommandEventArgs e);
[C++] protected: virtual void OnCommand(CommandEventArgs* e);
[VB] Overridable Protected Sub OnCommand(ByVal e As CommandEventArgs)
[JScript] protected function OnCommand(e : CommandEventArgs);
```

Description

Raises the **System.Web.UI.WebControls.ImageButton.Command** event and allows you to handle the **System.Web.UI.WebControls.ImageButton.Command** event directly.

The **System.Web.UI.WebControls.ImageButton.Command** event is raised when the **System.Web.UI.WebControls.ImageButton** control is clicked. The **System.Web.UI.WebControls.ImageButton.OnCommand(System.Web.UI.WebControls.CommandEventArgs)** event handler is used to make the **System.Web.UI.WebControls.ImageButton** control behave like a command button. A command name can be associated with the control by using the **System.Web.UI.WebControls.ImageButton.CommandName** property. This allows multiple **System.Web.UI.WebControls.ImageButton** controls to be placed on the Web page. The value in this property can then be programmatically identified in the **System.Web.UI.WebControls.ImageButton.OnCommand(System.Web.UI.W**

ebControls.CommandEventArgs) event handler to determine the appropriate action to perform when each **System.Web.UI.WebControls.ImageButton** control is clicked. The **System.Web.UI.WebControls.ImageButton.CommandArgument** property can also be used to pass additional information about the command, such as specifying ascending order. A **System.Web.UI.WebControls.CommandEventArgs** that contains the event data.

OnPreRender

```
[C#] protected override void OnPreRender(EventArgs e);
[C++] protected: void OnPreRender(EventArgs* e);
[VB] Overrides Protected Sub OnPreRender(ByVal e As EventArgs)
[JScript] protected override function OnPreRender(e : EventArgs);
```

Description

Determine if the image has been clicked prior to rendering on the client.

IPostBackDataHandler.LoadPostData

```
[C#] bool IPostBackDataHandler.LoadPostData(string postDataKey,
NameValueCollection postCollection);
[C++] bool IPostBackDataHandler::LoadPostData(String* postDataKey,
NameValueCollection* postCollection);
[VB] Function LoadPostData(ByVal postDataKey As String, ByVal
postCollection As NameValueCollection) As Boolean Implements
IPostBackDataHandler.LoadPostData
```

[JScript] function IPostBackDataHandler.LoadPostData(postDataKey : String, postCollection : NameValueCollection) : Boolean;

IPostBackDataHandler.RaisePostDataChangedEvent

[C#] void IPostBackDataHandler.RaisePostDataChangedEvent();

[C++] void IPostBackDataHandler::RaisePostDataChangedEvent();

[VB] Sub RaisePostDataChangedEvent() Implements IPostBackDataHandler.RaisePostDataChangedEvent

[JScript] function IPostBackDataHandler.RaisePostDataChangedEvent();

IPostBackEventHandler.RaisePostBackEvent

[C#] void IPostBackEventHandler.RaisePostBackEvent(string eventArgument);

[C++] void IPostBackEventHandler::RaisePostBackEvent(String* eventArgument);

[VB] Sub RaisePostBackEvent(ByVal eventArgument As String) Implements IPostBackEventHandler.RaisePostBackEvent

[JScript] function IPostBackEventHandler.RaisePostBackEvent(eventArgument : String);

IRepeatInfoUser interface (System.Web.UI.WebControls)

TrackViewState

Description

Specifies a contract for implementing **System.Web.UI.WebControls.Repeater** objects in list controls.

HasFooter

TrackViewState

[C#] bool HasFooter {get;}

[C++] bool get_HasFooter();

[VB] ReadOnly Property HasFooter As Boolean

[JScript] abstract function get HasFooter() : Boolean;

Description

Indicates whether the Repeater contains a footer item.

HasHeader

TrackViewState

[C#] bool HasHeader {get;}

[C++] bool get_HasHeader();

[VB] ReadOnly Property HasHeader As Boolean

[JScript] abstract function get HasHeader() : Boolean;

Description

Indicates whether the **System.Web.UI.WebControls.Repeater** contains a header item.

HasSeparators

TrackViewState

[C#] bool HasSeparators {get;}

[C++] bool get_HasSeparators();

[VB] ReadOnly Property HasSeparators As Boolean

[JScript] abstract function get HasSeparators() : Boolean;

Description

Indicates whether the Repeater contains separator items.

RepeatedItemCount

TrackViewState

[C#] int RepeatedItemCount {get;}

[C++] int get_RepeatedItemCount();

[VB] ReadOnly Property RepeatedItemCount As Integer

[JScript] abstract function get RepeatedItemCount() : int;

Description

Specifies the item count of the Repeater.

GetItemStyle

[C#] Style GetItemStyle(ListItemType itemType, int repeatIndex);

[C++] Style* GetItemStyle(ListItemType itemType, int repeatIndex);

[VB] Function GetItemStyle(ByVal itemType As ListItemType, ByVal repeatIndex As Integer) As Style

[JScript] function GetItemStyle(itemType : ListItemType, repeatIndex : int) : Style;

Description

Retrieves the item style with the specified item type and location within the **System.Web.UI.WebControls.Repeater** .

Return Value: A **System.Web.UI.WebControls.Style** that represents the Repeater item style. A **System.Web.UI.WebControls.ListItemType** that represents the specified type of the **System.Web.UI.WebControls.Repeater** item. An ordinal index that specifies the location of the item within the **System.Web.UI.WebControls.Repeater**.

RenderItem

[C#] void RenderItem(ListItemType itemType, int repeatIndex, RepeatInfo repeatInfo, HtmlTextWriter writer);

[C++] void RenderItem(ListItemType itemType, int repeatIndex, RepeatInfo* repeatInfo, HtmlTextWriter* writer);

[VB] Sub RenderItem(ByVal itemType As ListItemType, ByVal repeatIndex As Integer, ByVal repeatInfo As RepeatInfo, ByVal writer As HtmlTextWriter)

[JScript] function RenderItem(itemType : ListItemType, repeatIndex : int, repeatInfo : RepeatInfo, writer : HtmlTextWriter);

Description

Renders the **System.Web.UI.WebControls.Repeater** item with the specified information. A **System.Web.UI.WebControls.ListItemType** that represents the specified type of the **System.Web.UI.WebControls.Repeater** item. An ordinal index that specifies the location of the item within the

System.Web.UI.WebControls.Repeater. A **System.Web.UI.WebControls.RepeatInfo** that represents the information used to render items using a **System.Web.UI.WebControls.Repeater** . The output stream that renders HTML content to the client.

Label class (System.Web.UI.WebControls)

RenderItem

Description

Represents a label control, which displays text on a Web page.

Use the **System.Web.UI.WebControls.Label** control to display text in a set location on the page. Unlike static text, you can customize the displayed text through the **System.Web.UI.WebControls.Label.Text** property.

Label

Example Syntax:

RenderItem

[C#] public Label();

[C++] public: Label();

[VB] Public Sub New()

[JScript] public function Label(); Initializes a new instance of the **System.Web.UI.WebControls.Label** class.

Description

Initializes a new instance of the **System.Web.UI.WebControls.Label** class.

Use this constructor to create and initialize a new instance of the **System.Web.UI.WebControls.Label** class.

AccessKey

Attributes

BackColor

BorderColor

BorderStyle

BorderWidth

ChildControlsCreated

ClientID

Context

Controls

ControlStyle

ControlStyleCreated

CssClass

Enabled

EnableViewState

Events

Font

ForeColor

HasChildViewState

Height

ID

IsTrackingViewState

NamingContainer

Page

Parent

Site

Style

TabIndex

TagKey

TagName

TemplateSourceDirectory

Text

RenderItem

Description

Gets or sets the text content of the **System.Web.UI.WebControls.Label** control.

Use the **System.Web.UI.WebControls.Label.Text** property to specify or determine the text content of the **System.Web.UI.WebControls.Label** control. This property is commonly used to programmatically customize the text that is displayed in the **System.Web.UI.WebControls.Label** control.

ToolTip

UniqueID

ViewState

ViewStateIgnoresCase

Visible

Width

AddParsedSubObject

[C#] protected override void AddParsedSubObject(object obj);

[C++] protected: void AddParsedSubObject(Object* obj);

[VB] Overrides Protected Sub AddParsedSubObject(ByVal obj As Object)

[JScript] protected override function AddParsedSubObject(obj : Object);

Description

LoadViewState

[C#] protected override void LoadViewState(object savedState);

[C++] protected: void LoadViewState(Object* savedState);

[VB] Overrides Protected Sub LoadViewState(ByVal savedState As Object)

[JScript] protected override function LoadViewState(savedState : Object);

Description

Load previously saved state. Overridden to synchronize Text property with LiteralContent. Represents the previously saved state.

RenderContents

[C#] protected override void RenderContents(HtmlTextWriter writer);

[C++] protected: void RenderContents(HtmlTextWriter* writer);

[VB] Overrides Protected Sub RenderContents(ByVal writer As HtmlTextWriter)

[JScript] protected override function RenderContents(writer : HtmlTextWriter);

Description

Renders the contents of the **System.Web.UI.WebControls.Label** into the specified writer. The output stream that renders HTML content to the client.

LabelControlBuilder class (System.Web.UI.WebControls)

TrackViewState

Description

Interacts with the parser to build a **System.Web.UI.WebControls.Label** control.

To create a custom control builder for a **System.Web.UI.WebControls.Label** derived control, you need to inherit from this class.

LabelControlBuilder

Example Syntax:

TrackViewState

[C#] public LabelControlBuilder();

[C++] public: LabelControlBuilder();

[VB] Public Sub New()

[JScript] public function LabelControlBuilder();

ControlType

FChildrenAsProperties

FIsNonParserAccessor

HasAspCode

ID

InDesigner

NamingContainerType

Parser

TagName

AllowWhitespaceLiterals

[C#] public override bool AllowWhitespaceLiterals();

[C++] public: bool AllowWhitespaceLiterals();

[VB] Overrides Public Function AllowWhitespaceLiterals() As Boolean

[JScript] public override function AllowWhitespaceLiterals() : Boolean;

Description

Specifies whether white space literals are allowed.

Return Value: **false** for all cases.

This method overrides the **System.Web.UI.ControlBuilder.AllowWhitespaceLiterals** property to ignore white space in the **System.Web.UI.WebControls.Label** control.

LinkButton class (System.Web.UI.WebControls)

ToString

Description

Displays a hyperlink style button control on a Web page.

Use the **System.Web.UI.WebControls.LinkButton** control to create a hyperlink style button on the Web page. You can create either a submit button or a command button.

LinkButton

Example Syntax:

ToString

[C#] public LinkButton();

[C++] public: LinkButton();

[VB] Public Sub New()

[JScript] public function LinkButton();

Description

Initializes a new instance of the **System.Web.UI.WebControls.LinkButton** class.

Use this constructor to create and initialize a new instance of the **System.Web.UI.WebControls.LinkButton** control.

AccessKey

Attributes

BackColor

BorderColor

BorderStyle

BorderWidth

CausesValidation

ToString

Description

Gets or sets a value indicating whether validation is performed when the **System.Web.UI.WebControls.LinkButton** control is clicked.

By default, page validation is performed when a **System.Web.UI.WebControls.LinkButton** control is clicked. Page validation determines whether the input controls associated with a validation control on the page all pass the validation rules specified by the validation control.

ChildControlsCreated

ClientID

CommandArgument

ToString

Description

Gets or sets an optional argument passed to the **System.Web.UI.WebControls.LinkButton.Command** event handler along with the associated **System.Web.UI.WebControls.LinkButton.CommandName** property.

Use the **System.Web.UI.WebControls.LinkButton.CommandArgument** property to specify an argument that complements the **System.Web.UI.WebControls.LinkButton.CommandName** property.

CommandName

ToString

[C#] public string CommandName {get; set;}

[C++] public: __property String* get_CommandName();public: __property void set_CommandName(String*);

[VB] Public Property CommandName As String

[JScript] public function get CommandName() : String;public function set CommandName(String);

Description

Gets or sets the command name associated with the **System.Web.UI.WebControls.LinkButton** control. This value is passed to the **System.Web.UI.WebControls.LinkButton.Command** event handler along with the **System.Web.UI.WebControls.LinkButton.CommandArgument** property.

When you have multiple **System.Web.UI.WebControls.LinkButton** controls on a Web page, use the **System.Web.UI.WebControls.LinkButton.CommandName** property to specify or determine the command name associated with the **System.Web.UI.WebControls.LinkButton** control clicked. You can set the **System.Web.UI.WebControls.LinkButton.CommandName** property with any string that identifies the command to perform. You can then programmatically determine the command name of the **System.Web.UI.WebControls.LinkButton** control and perform the appropriate actions.

Context

Controls

ControlStyle

ControlStyleCreated

CssClass

Enabled

EnableViewState

Events

Font

ForeColor

HasChildViewState

Height

ID

IsTrackingViewState

NamingContainer

Page

Parent

Site

Style

TabIndex

TagKey

TagName

TemplateSourceDirectory

Text

ToString

Description

Gets or sets the text caption displayed on the **System.Web.UI.WebControls.LinkButton** control.

Use the **System.Web.UI.WebControls.LinkButton.Text** property to specify or determine the caption to display on the **System.Web.UI.WebControls.LinkButton** control.

ToolTip

UniqueID

ViewState

ViewStateIgnoresCase

Visible

Width

ToString

Description

Occurs when the **System.Web.UI.WebControls.LinkButton** control is clicked.

The **System.Web.UI.WebControls.LinkButton.Click** event is raised when the **System.Web.UI.WebControls.LinkButton** control is clicked. This event is commonly used when no command name is associated with the **System.Web.UI.WebControls.LinkButton** control, such as a submit button.

ToString

[C#] public event CommandEventHandler Command;

[C++] public: __event CommandEventHandler* Command;

[VB] Public Event Command As CommandEventHandler

Description

Occurs when the **System.Web.UI.WebControls.Button** control is clicked.

The **System.Web.UI.WebControls.LinkButton.Command** event is raised when the **System.Web.UI.WebControls.LinkButton** control is clicked. This event is commonly used when a command name, such as **Sort** , is associated with the **System.Web.UI.WebControls.LinkButton** control. This allows you to create multiple **System.Web.UI.WebControls.LinkButton** controls on a Web page and programmatically determine which **System.Web.UI.WebControls.LinkButton** control is clicked.

AddAttributesToRender

[C#] protected override void AddAttributesToRender(HtmlTextWriter writer);

[C++] protected: void AddAttributesToRender(HtmlTextWriter* writer);

[VB] Overrides Protected Sub AddAttributesToRender(ByVal writer As HtmlTextWriter)

[JScript] protected override function AddAttributesToRender(writer : HtmlTextWriter);

Description

Render the attributes on the begin tag.

AddParsedSubObject

```
[C#] protected override void AddParsedSubObject(object obj);
[C++] protected: void AddParsedSubObject(Object* obj);
[VB] Overrides Protected Sub AddParsedSubObject(ByVal obj As Object)
[JScript] protected override function AddParsedSubObject(obj : Object);
```

Description

LoadViewState

```
[C#] protected override void LoadViewState(object savedState);
[C++] protected: void LoadViewState(Object* savedState);
[VB] Overrides Protected Sub LoadViewState(ByVal savedState As Object)
[JScript] protected override function LoadViewState(savedState : Object);
```

Description

Load previously saved state. Overridden to synchronize Text property with LiteralContent.

OnClick

```
[C#] protected virtual void OnClick(EventArgs e);
[C++] protected: virtual void OnClick(EventArgs* e);
[VB] Overridable Protected Sub OnClick(ByVal e As EventArgs)
[JScript] protected function OnClick(e : EventArgs);
```

Description

Raises the **System.Web.UI.WebControls.LinkButton.Click** event of the **System.Web.UI.WebControls.LinkButton** control.

The **System.Web.UI.WebControls.LinkButton.Click** event is raised when the **System.Web.UI.WebControls.LinkButton** control is clicked. This event is commonly used when no command name is associated with the **System.Web.UI.WebControls.LinkButton** control, such as a submit button. A **System.EventArgs** that contains the event data.

OnCommand

```
[C#] protected virtual void OnCommand(CommandEventArgs e);
[C++] protected: virtual void OnCommand(CommandEventArgs* e);
[VB] Overridable Protected Sub OnCommand(ByVal e As CommandEventArgs)
[JScript] protected function OnCommand(e : CommandEventArgs);
```

Description

Raises the **System.Web.UI.WebControls.LinkButton.Command** event of the **System.Web.UI.WebControls.LinkButton** control.

The **System.Web.UI.WebControls.LinkButton.Command** event is raised when the **System.Web.UI.WebControls.LinkButton** control is clicked. This event is commonly used when a command name, such as **Sort** , is associated with the **System.Web.UI.WebControls.LinkButton** control. This allows you to create multiple **System.Web.UI.WebControls.LinkButton** controls on a Web page and programmatically determine which **System.Web.UI.WebControls.LinkButton** control is clicked. A **System.Web.UI.WebControls.CommandEventArgs** that contains the event data.

RenderContents

[C#] protected override void RenderContents(HtmlTextWriter writer);

[C++] protected: void RenderContents(HtmlTextWriter* writer);

[VB] Overrides Protected Sub RenderContents(ByVal writer As HtmlTextWriter)

[JScript] protected override function RenderContents(writer : HtmlTextWriter);

Description

The output stream that renders HTML content to the client.

IPostBackEventHandler.RaisePostBackEvent

[C#] void IPostBackEventHandler.RaisePostBackEvent(string eventArgument);

[C++] void IPostBackEventHandler::RaisePostBackEvent(String* eventArgument);

[VB] Sub RaisePostBackEvent(ByVal eventArgument As String) Implements IPostBackEventHandler.RaisePostBackEvent

[JScript] function IPostBackEventHandler.RaisePostBackEvent(eventArgument : String);

LinkButtonControlBuilder class (System.Web.UI.WebControls)

TrackViewState

Description

Interacts with the parser to build a **System.Web.UI.WebControls.LinkButton** control.

To create a custom control builder for a **System.Web.UI.WebControls.LinkButton** derived control, you need to inherit from this class.

LinkButtonControlBuilder

Example Syntax:

TrackViewState

[C#] public LinkButtonControlBuilder();

[C++] public: LinkButtonControlBuilder();

[VB] Public Sub New()

[JScript] public function LinkButtonControlBuilder();

ControlType

FChildrenAsProperties

FIsNonParserAccessor

HasAspCode

ID

InDesigner

NamingContainerType

Parser

TagName

AllowWhitespaceLiterals

[C#] public override bool AllowWhitespaceLiterals();

[C++] public: bool AllowWhitespaceLiterals();

[VB] Overrides Public Function AllowWhitespaceLiterals() As Boolean

[JScript] public override function AllowWhitespaceLiterals() : Boolean;

Description

Specifies whether white space literals are allowed.

Return Value: **false** for all cases.

This method overrides **System.Web.UI.ControlBuilder.AllowWhitespaceLiterals** to ignore white space in the **System.Web.UI.WebControls.LinkButton** control.

ListBox class (System.Web.UI.WebControls)

ToString

Description

Represents a list box control that allows single or multiple item selection.

Use the **System.Web.UI.WebControls.ListBox** control to create a list control that allows single or multiple item selection. Use the **System.Web.UI.WebControls.ListBox.Rows** property to specify the height of the control. To enable multiple item selection, set the **System.Web.UI.WebControls.ListBox.SelectionMode** property to **ListSelectionMode.Multiple** .

ListBox

Example Syntax:

ToString

[C#] public ListBox();

[C++] public: ListBox();

[VB] Public Sub New()

[JScript] public function ListBox();

Description

Initializes a new instance of the **System.Web.UI.WebControls.ListBox** class.

Use this constructor to create and initialize a new instance of the **System.Web.UI.WebControls.ListBox** class.

AccessKey

Attributes

AutoPostBack

BackColor

BorderColor

ToString

Description

Gets or sets the border color of the control.

The **System.Web.UI.WebControls.ListBox.BorderColor** property is inherited from the **System.Web.UI.WebControls.WebControl** class and is not applicable to the **System.Web.UI.WebControls.ListBox** control.

BorderStyle

ToString

[C#] public override BorderStyle BorderStyle {get; set;}

[C++] public: __property virtual BorderStyle get_BorderStyle();public: __property virtual void set_BorderStyle(BorderStyle);

[VB] Overrides Public Property BorderStyle As BorderStyle

[JScript] public function get BorderStyle() : BorderStyle;public function set BorderStyle(BorderStyle);

Description

Gets or sets the border style of the control.

The **System.Web.UI.WebControls.ListBox.BorderStyle** property is inherited from the **System.Web.UI.WebControls.WebControl** class and is not applicable to the **System.Web.UI.WebControls.ListBox** control.

BorderWidth

ToString

[C#] public override Unit BorderWidth {get; set;}

[C++] public: __property virtual Unit get_BorderWidth();public: __property virtual void set_BorderWidth(Unit);

[VB] Overrides Public Property BorderWidth As Unit

[JScript] public function get BorderWidth() : Unit;public function set BorderWidth(Unit);

Description

Gets or sets the border width for the control.

The **System.Web.UI.WebControls.ListBox.BorderWidth** property is inherited from the **System.Web.UI.WebControls.WebControl** class and is not applicable to the **System.Web.UI.WebControls.ListBox** control.

ChildControlsCreated

ClientID

Context

Controls

ControlStyle

ControlStyleCreated

CssClass

DataMember

DataSource

DataTextField

DataTextFormatString

DataValueField

Enabled

EnableViewState

Events

Font

ForeColor

HasChildViewState

Height

ID

IsTrackingViewState

Items

NamingContainer

Page

Parent

Rows

ToString

Description

Gets or sets the number of rows displayed in the **System.Web.UI.WebControls.ListBox** control.

Use the **System.Web.UI.WebControls.ListBox.Rows** property to specify the number of rows to display in the **System.Web.UI.WebControls.ListBox** control.

SelectedIndex

SelectedItem

SelectionMode

ToString

Description

Gets or sets the selection mode of the **System.Web.UI.WebControls.ListBox** control.

Use the **System.Web.UI.WebControls.ListBox.SelectionMode** property to specify the mode behavior of the **System.Web.UI.WebControls.ListBox** control. Setting this property to **ListSelectionMode.Single** indicates only a single item can be selected from the **System.Web.UI.WebControls.ListBox** control, while **ListSelectionMode.Multiple** specifies multiple items can be selected.

Site

Style

TabIndex

TagKey

TagName

TemplateSourceDirectory

ToolTip

ToString

Description

Gets or sets the ToolTip text displayed when the mouse pointer rests over the control.

The **System.Web.UI.WebControls.ListBox.ToolTip** property is inherited from the **System.Web.UI.WebControls.WebControl** class and is not applicable to the **System.Web.UI.WebControls.ListBox** control.

UniqueID

ViewState

ViewStateIgnoresCase

Visible

Width

AddAttributesToRender

[C#] protected override void AddAttributesToRender(HtmlTextWriter writer);

[C++] protected: void AddAttributesToRender(HtmlTextWriter* writer);

[VB] Overrides Protected Sub AddAttributesToRender(ByVal writer As HtmlTextWriter)

[JScript] protected override function AddAttributesToRender(writer : HtmlTextWriter);

Description

Adds name, size, multiple, and onchange to list of attributes to render. The output stream that renders HTML content to the client.

OnPreRender

[C#] protected override void OnPreRender(EventArgs e);

[C++] protected: void OnPreRender(EventArgs* e);

[VB] Overrides Protected Sub OnPreRender(ByVal e As EventArgs)

[JScript] protected override function OnPreRender(e : EventArgs);

Description

RenderContents

[C#] protected override void RenderContents(HtmlTextWriter writer);

[C++] protected: void RenderContents(HtmlTextWriter* writer);

[VB] Overrides Protected Sub RenderContents(ByVal writer As HtmlTextWriter)

[JScript] protected override function RenderContents(writer : HtmlTextWriter);

Description

IPostBackDataHandler.LoadPostData

[C#] bool IPostBackDataHandler.LoadPostData(string postDataKey, NameValueCollection postCollection);

[C++] bool IPostBackDataHandler::LoadPostData(String* postDataKey, NameValueCollection* postCollection);

[VB] Function LoadPostData(ByVal postDataKey As String, ByVal postCollection As NameValueCollection) As Boolean Implements IPostBackDataHandler.LoadPostData

[JScript] function IPostBackDataHandler.LoadPostData(postDataKey : String, postCollection : NameValueCollection) : Boolean;

IPostBackDataHandler.RaisePostDataChangedEvent

[C#] void IPostBackDataHandler.RaisePostDataChangedEvent();

[C++] void IPostBackDataHandler::RaisePostDataChangedEvent();

[VB] Sub RaisePostDataChangedEvent() Implements IPostBackDataHandler.RaisePostDataChangedEvent

[JScript] function IPostBackDataHandler.RaisePostDataChangedEvent();

ListControl class (System.Web.UI.WebControls)

TrackViewState

Description

Serves as the abstract base class that defines the properties, methods, and events common for all list-type controls.

The **System.Web.UI.WebControls.ListControl** class is typically not instantiated. Instead, to provide common basic functionality, this class is inherited by others, such as the **System.Web.UI.WebControls.CheckBoxList** , **System.Web.UI.WebControls.DropDownList** , **System.Web.UI.WebControls.ListBox** , and **System.Web.UI.WebControls.RadioButtonList** .

ListControl

Example Syntax:

TrackViewState

```
[C#] public ListControl();
[C++] public: ListControl();
[VB] Public Sub New()
[JScript] public function ListControl();
```

Description

Initializes a new instance of the **System.Web.UI.WebControls.ListControl** class.

AccessKey

Attributes

AutoPostBack

TrackViewState

Description

Gets or sets a value indicating whether a postback to the server automatically occurs when the user changes the list selection.

Set this property to **true** if the server needs to capture the selection as soon as it is made. For example, other controls on the Web page can be automatically filled depending on the user's selection from a list control.

BackColor

BorderColor

BorderStyle

BorderWidth

ChildControlsCreated

ClientID

Context

Controls

ControlStyle

ControlStyleCreated

CssClass

DataMember

TrackViewState

Description

Gets or sets the specific table in the **System.Web.UI.WebControls.ListControl.DataSource** to bind to the control.

If the **System.Web.UI.WebControls.ListControl.DataSource** contains more than one table, use this property to specify the exact table to bind to the control.

DataSource

TrackViewState

[C#] public virtual object DataSource {get; set;}

[C++] public: __property virtual Object* get_DataSource();public: __property virtual void set_DataSource(Object*);

[VB] Overridable Public Property DataSource As Object

[JScript] public function get DataSource() : Object;public function set DataSource(Object);

Description

Gets or sets the data source that populates the items of the list control.

Use this property to specify a source of data to populate a list control.

DataTextField

TrackViewState

[C#] public virtual string DataTextField {get; set;}

[C++] public: __property virtual String* get_DataTextField();public: __property virtual void set_DataTextField(String*);

[VB] Overridable Public Property DataTextField As String

[JScript] public function get DataTextField() : String;public function set DataTextField(String);

Description

Gets or sets the field of the data source that provides the text content of the list items.

Use this property to specify a field in the **System.Web.UI.WebControls.ListControl.DataSource** to display as the items of the list in a list control.

DataTextFormatString

TrackViewState

[C#] public virtual string DataTextFormatString {get; set;}

[C++] public: __property virtual String* get_DataTextFormatString();public: __property virtual void set_DataTextFormatString(String*);

[VB] Overridable Public Property DataTextFormatString As String

[JScript] public function get DataTextFormatString() : String;public function set DataTextFormatString(String);

Description

Gets or sets the formatting string used to control how data bound to the list control is displayed.

Use this property to provide a custom display format for the items in the list control.

DataValueField

TrackViewState

[C#] public virtual string DataValueField {get; set;}

[C++] public: __property virtual String* get_DataValueField();public: __property virtual void set_DataValueField(String*);

[VB] Overridable Public Property DataValueField As String

[JScript] public function get DataValueField() : String;public function set DataValueField(String);

Description

Gets or sets the field of the data source that provides the value of each list item.

Use this property to specify the field that contains the value of each item in a list control.

Enabled

EnableViewState

Events

Font

ForeColor

HasChildViewState

Height

ID

IsTrackingViewState

Items

TrackViewState

Description

Gets the collection of items in the list control.

Use this property to get the properties of items in the list control. This property can be used to determine the selected items in the list control.

NamingContainer

Page

Parent

SelectedIndex

TrackViewState

Description

Gets or sets the lowest ordinal index of the selected items in the list.

Use this property to determine the index of the currently selected item in the list if the list control allows only one selection. If the list control supports multiple selections, use this property to determine the lowest index of the selected items.

SelectedItem

TrackViewState

```
[C#] public virtual ListItem SelectedItem {get;}
[C++] public: __property virtual ListItem* get_SelectedItem();
[VB] Overridable Public ReadOnly Property SelectedItem As ListItem
```

[JScript] public function get SelectedItem() : ListItem;

Description

Gets the selected item with the lowest index in the list control.

If the list control allows only a single selection, use this property to get the individual properties of the selected item. If the list control allows multiple selections, use this property to get the properties of the lowest indexed item selected from the list control.

Site

Style

TabIndex

TagKey

TagName

TemplateSourceDirectory

ToolTip

UniqueID

ViewState

ViewStateIgnoresCase

Visible

Width

TrackViewState

Description

Occurs when the selection on the list changes and is posted back to the server.

This event is raised when the selection from the list changes and is posted back to the server.

ClearSelection

[C#] public virtual void ClearSelection();

[C++] public: virtual void ClearSelection();

[VB] Overridable Public Sub ClearSelection()

[JScript] public function ClearSelection();

Description

Clears out the list selection and sets the **System.Web.UI.WebControls.ListItem.Selected** property of all items to false.

LoadViewState

[C#] protected override void LoadViewState(object savedState);

[C++] protected: void LoadViewState(Object* savedState);

[VB] Overrides Protected Sub LoadViewState(ByVal savedState As Object)

[JScript] protected override function LoadViewState(savedState : Object);

Description

Load previously saved state. Overridden to restore selection.

OnDataBinding

```
[C#] protected override void OnDataBinding(EventArgs e);
[C++] protected: void OnDataBinding(EventArgs* e);
[VB] Overrides Protected Sub OnDataBinding(ByVal e As EventArgs)
[JScript] protected override function OnDataBinding(e : EventArgs);
```

Description

OnSelectedIndexChanged

```
[C#] protected virtual void OnSelectedIndexChanged(EventArgs e);
[C++] protected: virtual void OnSelectedIndexChanged(EventArgs* e);
[VB] Overridable Protected Sub OnSelectedIndexChanged(ByVal e As EventArgs)
[JScript] protected function OnSelectedIndexChanged(e : EventArgs);
```

Description

Raises the **System.Web.UI.WebControls.ListControl.SelectedIndexChanged** event.

Raising an event invokes the event handler through a delegate. For more information, see . An **System.EventArgs** that contains the event data.

SaveViewState

```
[C#] protected override object SaveViewState();
[C++] protected: Object* SaveViewState();
[VB] Overrides Protected Function SaveViewState() As Object
```

[JScript] protected override function SaveViewState() : Object;

Description

TrackViewState

[C#] protected override void TrackViewState();

[C++] protected: void TrackViewState();

[VB] Overrides Protected Sub TrackViewState()

[JScript] protected override function TrackViewState();

Description

ListItem class (System.Web.UI.WebControls)

TrackViewState

Description

Represents a data item in a databound list control. This class cannot be inherited.

A **System.Web.UI.WebControls.ListItem** control represents an individual data item within a databound list control, such as a **System.Web.UI.WebControls.ListBox** or a **System.Web.UI.WebControls.RadioButtonList** control.

ListItem

Example Syntax:

TrackViewState

[C#] public ListItem();

[C++] public: ListItem();

[VB] Public Sub New()

[JScript] public function ListItem(); Initializes a new instance of the **System.Web.UI.WebControls.ListItem** class.

Description

Initializes a new instance of the **System.Web.UI.WebControls.ListItem** class.

ListItem

Example Syntax:

TrackViewState

[C#] public ListItem(string text);

[C++] public: ListItem(String* text);

[VB] Public Sub New(ByVal text As String)

[JScript] public function ListItem(text : String);

Description

Initializes a new instance of the **System.Web.UI.WebControls.ListItem** class with the specified text data. The text data to initialize the list item with.

ListItem

Example Syntax:

TrackViewState

```
[C#] public ListItem(string text, string value);
[C++] public: ListItem(String* text, String* value);
[VB] Public Sub New(ByVal text As String, ByVal value As String)
[JScript] public function ListItem(text : String, value : String);
```

Description

Initializes a new instance of the **System.Web.UI.WebControls.ListItem** class with the specified text and value data.

The following table shows initial property values for an instance of **System.Web.UI.WebControls.ListItem** . The text data to initialize the list item with. The value data to initialize the list item with.

Attributes

TrackViewState

```
[C#] public AttributeCollection Attributes {get;}
[C++] public: __property AttributeCollection* get_Attributes();
[VB] Public ReadOnly Property Attributes As AttributeCollection
[JScript] public function get Attributes() : AttributeCollection;
```

Description

Gets the collection of attribute name/value pairs expressed on the list item control but not supported by the control's strongly typed properties.

Selected

TrackViewState

```
[C#] public bool Selected {get; set;}
[C++] public: __property bool get_Selected();public: __property void set_Selected(bool);
[VB] Public Property Selected As Boolean
[JScript] public function get Selected() : Boolean;public function set Selected(Boolean);
```

Description

Specifies a value indicating whether the item is selected.

Text

TrackViewState

```
[C#] public string Text {get; set;}
[C++] public: __property String* get_Text();public: __property void set_Text(String*);
[VB] Public Property Text As String
[JScript] public function get Text() : String;public function set Text(String);
```

Description

Gets or sets the text displayed in the list control for the item represented by the **System.Web.UI.WebControls.ListItem** control.

If the list item control has no text content, then gets its value content, if exists, instead.

Value

TrackViewState

[C#] public string Value {get; set;}

[C++] public: __property String* get_Value();public: __property void set_Value(String*);

[VB] Public Property Value As String

[JScript] public function get Value() : String;public function set Value(String);

Description

Gets or sets the value content of the list item control.

If the list item control has no value content, then gets its text content, if exists, instead.

Equals

[C#] public override bool Equals(object o);

[C++] public: bool Equals(Object* o);

[VB] Overrides Public Function Equals(ByVal o As Object) As Boolean

[JScript] public override function Equals(o : Object) : Boolean;

Description

FromString

[C#] public static ListItem FromString(string s);

[C++] public: static ListItem* FromString(String* s);

[VB] Public Shared Function FromString(ByVal s As String) As ListItem

[JScript] public static function FromString(s : String) : ListItem;

Description

Creates a **System.Web.UI.WebControls.ListItem** from the specified string. The specified string for creating a **System.Web.UI.WebControls.ListItem**.

GetHashCode

[C#] public override int GetHashCode();

[C++] public: int GetHashCode();

[VB] Overrides Public Function GetHashCode() As Integer

[JScript] public override function GetHashCode() : int;

Description

IAttributeAccessor.GetAttribute

[C#] string IAttributeAccessor.GetAttribute(string name);

[C++] String* IAttributeAccessor::GetAttribute(String* name);

[VB] Function GetAttribute(ByVal name As String) As String Implements IAttributeAccessor.GetAttribute

[JScript] function IAttributeAccessor.GetAttribute(name : String) : String;

IAttributeAccessor.SetAttribute

[C#] void IAttributeAccessor.SetAttribute(string name, string value);

```
[C++] void IAttributeAccessor::SetAttribute(String* name, String* value);
[VB] Sub SetAttribute(ByVal name As String, ByVal value As String)
Implements IAttributeAccessor.SetAttribute
[JScript] function IAttributeAccessor.SetAttribute(name : String, value : String);
```

IParserAccessor.AddParsedSubObject

```
[C#] void IParserAccessor.AddParsedSubObject(object obj);
[C++] void IParserAccessor::AddParsedSubObject(Object* obj);
[VB] Sub AddParsedSubObject(ByVal obj As Object) Implements
IParserAccessor.AddParsedSubObject
[JScript] function IParserAccessor.AddParsedSubObject(obj : Object);
```

IStateManager.LoadViewState

```
[C#] void IStateManager.LoadViewState(object state);
[C++] void IStateManager::LoadViewState(Object* state);
[VB] Sub LoadViewState(ByVal state As Object) Implements
IStateManager.LoadViewState
[JScript] function IStateManager.LoadViewState(state : Object);
```

IStateManager.SaveViewState

```
[C#] object IStateManager.SaveViewState();
[C++] Object* IStateManager::SaveViewState();
[VB] Function SaveViewState() As Object Implements
IStateManager.SaveViewState
[JScript] function IStateManager.SaveViewState() : Object;
```

IStateManager.TrackViewState

```
[C#] void IStateManager.TrackViewState();
[C++] void IStateManager::TrackViewState();
[VB] Sub TrackViewState() Implements IStateManager.TrackViewState
[JScript] function IStateManager.TrackViewState();
```

ToString

```
[C#] public override string ToString();
[C++] public: String* ToString();
[VB] Overrides Public Function ToString() As String
[JScript] public override function ToString() : String;
```

Description

ListItemCollection class (System.Web.UI.WebControls)

ToString

Description

Encapsulates the **System.Web.UI.WebControls.ListItem** controls within a **System.Web.UI.WebControls.ListControl** . This class cannot be inherited.

ListItemCollection

Example Syntax:

ToString

[C#] public ListItemCollection();

[C++] public: ListItemCollection();

[VB] Public Sub New()

[JScript] public function ListItemCollection();

Description

Initializes a new instance of the **System.Web.UI.WebControls.ListItemCollection** class.

Capacity

ToString

[C#] public int Capacity {get; set;}

[C++] public: __property int get_Capacity();public: __property void set_Capacity(int);

[VB] Public Property Capacity As Integer

[JScript] public function get Capacity() : int;public function set Capacity(int);

Count

ToString

[C#] public int Count {get;}

[C++] public: __property int get_Count();

[VB] Public ReadOnly Property Count As Integer

[JScript] public function get Count() : int;

Description

Gets the item count of the collection.

IsReadOnly

ToString

[C#] public bool IsReadOnly {get;}

[C++] public: __property bool get_IsReadOnly();

[VB] Public ReadOnly Property IsReadOnly As Boolean

[JScript] public function get IsReadOnly() : Boolean;

Description

Gets a value indicating whether the collection is read-only.

IsSynchronized

ToString

[C#] public bool IsSynchronized {get;}

[C++] public: __property bool get_IsSynchronized();

[VB] Public ReadOnly Property IsSynchronized As Boolean

[JScript] public function get IsSynchronized() : Boolean;

Description

Gets a value indicating whether access to the collection is synchronized (thread-safe).

Item

ToString

```
[C#] public ListItem this[int index] {get;}
[C++] public: __property ListItem* get_Item(int index);
[VB] Public Default ReadOnly Property Item(ByVal index As Integer) As ListItem
[JScript] returnValue = ListItemCollectionObject.Item(index);
```

Description

Gets a **System.Web.UI.WebControls.ListItem** referenced by the specified ordinal index value. An ordinal index value that specifies which **System.Web.UI.WebControls.ListItem** to return.

SyncRoot

ToString

```
[C#] public object SyncRoot {get;}
[C++] public: __property Object* get_SyncRoot();
[VB] Public ReadOnly Property SyncRoot As Object
[JScript] public function get SyncRoot() : Object;
```

Description

Gets the object that can be used to synchronize access to the collection. In this case, it is the collection itself.

Add

[C#] public void Add(ListItem item);

[C++] public: void Add(ListItem* item);

[VB] Public Sub Add(ByVal item As ListItem)

[JScript] public function Add(item : ListItem);

Description

Adds the specified **System.Web.UI.WebControls.ListItem** to the end of the collection. The **System.Web.UI.WebControls.ListItem** to add to the collection.

Add

[C#] public void Add(string item);

[C++] public: void Add(String* item);

[VB] Public Sub Add(ByVal item As String)

[JScript] public function Add(item : String); Adds the specified item to the end of the collection.

Description

Adds the specified item to the end of the collection. A **System.String** that specifies the item to add.

AddRange

[C#] public void AddRange(ListItem[] items);

[C++] public: void AddRange(ListItem* items[]);

[VB] Public Sub AddRange(ByVal items() As ListItem)

[JScript] public function AddRange(items : ListItem[]);

Clear

[C#] public void Clear();

[C++] public: __sealed void Clear();

[VB] NotOverridable Public Sub Clear()

[JScript] public function Clear();

Description

Removes all **System.Web.UI.WebControls.ListItem** controls from the collection.

Contains

[C#] public bool Contains(ListItem item);

[C++] public: bool Contains(ListItem* item);

[VB] Public Function Contains(ByVal item As ListItem) As Boolean

[JScript] public function Contains(item : ListItem) : Boolean;

Description

Returns a value indicating whether the collection contains the specified item.

Return Value: **true** if the collection contains the specified item; otherwise, **false** .

A **System.Web.UI.WebControls.ListItem** to search for in the collection.

CopyTo

```
[C#] public void CopyTo(Array array, int index);
[C++] public: __sealed void CopyTo(Array* array, int index);
[VB] NotOverridable Public Sub CopyTo(ByVal array As Array, ByVal index As Integer)
[JScript] public function CopyTo(array : Array, index : int);
```

Description

Copies contents from the collection to a specified **System.Array** with a specified starting index. The specified **System.Array** that receives copied contents from the collection. The starting position in the specified **System.Array** to receive copied contents.

FindByText

```
[C#] public ListItem FindByText(string text);
[C++] public: ListItem* FindByText(String* text);
[VB] Public Function FindByText(ByVal text As String) As ListItem
[JScript] public function FindByText(text : String) : ListItem;
```

FindByValue

```
[C#] public ListItem FindByValue(string value);
[C++] public: ListItem* FindByValue(String* value);
[VB] Public Function FindByValue(ByVal value As String) As ListItem
[JScript] public function FindByValue(value : String) : ListItem;
```

GetEnumerator

[C#] public IEnumerator GetEnumerator();

[C++] public: __sealed IEnumerator* GetEnumerator();

[VB] NotOverridable Public Function GetEnumerator() As IEnumerator

[JScript] public function GetEnumerator() : IEnumerator;

Description

Returns an enumerator of all **System.Web.UI.WebControls.ListItem** controls within the collection.

Return Value: An enumerator that enumerates over all **System.Web.UI.WebControls.ListItem** controls within the collection.

IndexOf

[C#] public int IndexOf(ListItem item);

[C++] public: int IndexOf(ListItem* item);

[VB] Public Function IndexOf(ByVal item As ListItem) As Integer

[JScript] public function IndexOf(item : ListItem) : int;

Description

Returns an ordinal index value that represents the position of the specified **System.Web.UI.WebControls.ListItem** within the collection.

Return Value: The ordinal index position of the specified **System.Web.UI.WebControls.ListItem** within the collection. The specified **System.Web.UI.WebControls.ListItem** to search for in the collection.

Insert

[C#] public void Insert(int index, ListItem item);

[C++] public: void Insert(int index, ListItem* item);

[VB] Public Sub Insert(ByVal index As Integer, ByVal item As ListItem)

[JScript] public function Insert(index : int, item : ListItem);

Description

Inserts the specified **System.Web.UI.WebControls.ListItem** to the collection at the specified index location. The location in the collection to add the **System.Web.UI.WebControls.ListItem** . The **System.Web.UI.WebControls.ListItem** to add to the collection.

Insert

[C#] public void Insert(int index, string item);

[C++] public: void Insert(int index, String* item);

[VB] Public Sub Insert(ByVal index As Integer, ByVal item As String)

[JScript] public function Insert(index : int, item : String); Inserts the specified item to the collection at the specified index location.

Description

Adds the specified item to the collection at the specified index location. The location in the collection to add the **System.Web.UI.WebControls.ListItem** . The item to add to the collection.

Remove

[C#] public void Remove(ListItem item);

[C++] public: void Remove(ListItem* item);

[VB] Public Sub Remove(ByVal item As ListItem)

[JScript] public function Remove(item : ListItem);

Description

Removes the specified **System.Web.UI.WebControls.ListItem** from the collection. The **System.Web.UI.WebControls.ListItem** to remove from the collection.

Remove

[C#] public void Remove(string item);

[C++] public: void Remove(String* item);

[VB] Public Sub Remove(ByVal item As String)

[JScript] public function Remove(item : String); Removes the specified item from the collection.

Description

Removes the specified item from the collection. The item to remove from the collection.

RemoveAt

[C#] public void RemoveAt(int index);

[C++] public: __sealed void RemoveAt(int index);

```
[VB] NotOverridable Public Sub RemoveAt(ByVal index As Integer)
[JScript] public function RemoveAt(index : int);
```

Description

Removes the **System.Web.UI.WebControls.ListItem** from the collection at the specified index location. The location in the collection to remove the **System.Web.UI.WebControls.ListItem**.

IList.Add

```
[C#] int IList.Add(object item);
[C++] int IList::Add(Object* item);
[VB] Function Add(ByVal item As Object) As Integer Implements IList.Add
[JScript] function IList.Add(item : Object) : int;
```

IList.Contains

```
[C#] bool IList.Contains(object item);
[C++] bool IList::Contains(Object* item);
[VB] Function Contains(ByVal item As Object) As Boolean Implements IList.Contains
[JScript] function IList.Contains(item : Object) : Boolean;
```

IList.IndexOf

```
[C#] int IList.IndexOf(object item);
[C++] int IList::IndexOf(Object* item);
[VB] Function IndexOf(ByVal item As Object) As Integer Implements
```

IList.IndexOf

[JScript] function IList.IndexOf(item : Object) : int;

IList.Insert

[C#] void IList.Insert(int index, object item);

[C++] void IList::Insert(int index, Object* item);

[VB] Sub Insert(ByVal index As Integer, ByVal item As Object) Implements IList.Insert

[JScript] function IList.Insert(index : int, item : Object);

IList.Remove

[C#] void IList.Remove(object item);

[C++] void IList::Remove(Object* item);

[VB] Sub Remove(ByVal item As Object) Implements IList.Remove

[JScript] function IList.Remove(item : Object);

IStateManager.LoadViewState

[C#] void IStateManager.LoadViewState(object state);

[C++] void IStateManager::LoadViewState(Object* state);

[VB] Sub LoadViewState(ByVal state As Object) Implements IStateManager.LoadViewState

[JScript] function IStateManager.LoadViewState(state : Object);

IStateManager.SaveViewState

[C#] object IStateManager.SaveViewState();

[C++] Object* IStateManager::SaveViewState();

[VB] Function SaveViewState() As Object Implements IStateManager.SaveViewState

[JScript] function IStateManager.SaveViewState() : Object;

IStateManager.TrackViewState

[C#] void IStateManager.TrackViewState();

[C++] void IStateManager::TrackViewState();

[VB] Sub TrackViewState() Implements IStateManager.TrackViewState

[JScript] function IStateManager.TrackViewState();

ListItemControlBuilder class (System.Web.UI.WebControls)

ToString

Description

Interacts with the parser to build a **System.Web.UI.WebControls.ListItem** control.

ListItemControlBuilder

Example Syntax:

ToString

[C#] public ListItemControlBuilder();

[C++] public: ListItemControlBuilder();

[VB] Public Sub New()

[JScript] public function ListItemControlBuilder();

ControlType

FChildrenAsProperties

FIsNonParserAccessor

HasAspCode

ID

InDesigner

NamingContainerType

Parser

TagName

AllowWhitespaceLiterals

```
[C#] public override bool AllowWhitespaceLiterals();
[C++] public: bool AllowWhitespaceLiterals();
[VB] Overrides Public Function AllowWhitespaceLiterals() As Boolean
[JScript] public override function AllowWhitespaceLiterals() : Boolean;
```

Description

HtmlDecodeLiterals

```
[C#] public override bool HtmlDecodeLiterals();
[C++] public: bool HtmlDecodeLiterals();
[VB] Overrides Public Function HtmlDecodeLiterals() As Boolean
[JScript] public override function HtmlDecodeLiterals() : Boolean;
```

Description

ListItemType enumeration (System.Web.UI.WebControls)

ToString

Description

Specifies the type of an item in a list control.

The **System.Web.UI.WebControls.ListItemType** enumeration represents the different items that can be included in a list control, such as **System.Web.UI.WebControls.DataGrid** , **System.Web.UI.WebControls.DataList** , and the **System.Web.UI.WebControls.Repeater** . A typical list control consists of cells that contain elements represented by this enumeration.

ToString

```
[C#] public const ListItemType AlternatingItem;
[C++] public: const ListItemType AlternatingItem;
[VB] Public Const AlternatingItem As ListItemType
[JScript] public var AlternatingItem : ListItemType;
```

Description

An item in alternating (zero-based even-indexed) cells. It is databound.

ToString

[C#] public const ListItemType EditItem;

[C++] public: const ListItemType EditItem;

[VB] Public Const EditItem As ListItemType

[JScript] public var EditItem : ListItemType;

Description

An item in a list control currently in edit mode. It is databound.

ToString

[C#] public const ListItemType Footer;

[C++] public: const ListItemType Footer;

[VB] Public Const Footer As ListItemType

[JScript] public var Footer : ListItemType;

Description

A footer for the list control. It is not databound.

ToString

[C#] public const ListItemType Header;

[C++] public: const ListItemType Header;

[VB] Public Const Header As ListItemType

[JScript] public var Header : ListItemType;

Description

A header for the list control. It is not databound.

ToString

```
[C#] public const ListItemType Item;
[C++] public: const ListItemType Item;
[VB] Public Const Item As ListItemType
[JScript] public var Item : ListItemType;
```

Description

An item in the list control. It is databound.

ToString

```
[C#] public const ListItemType Pager;
[C++] public: const ListItemType Pager;
[VB] Public Const Pager As ListItemType
[JScript] public var Pager : ListItemType;
```

Description

A pager that displays the controls to navigate to different pages associated with the **System.Web.UI.WebControls.DataGrid** control. It is not databound.

ToString

```
[C#] public const ListItemType SelectedItem;
[C++] public: const ListItemType SelectedItem;
[VB] Public Const SelectedItem As ListItemType
```

[JScript] public var SelectedItem : ListItemType;

Description

A selected item in the list control. It is databound.

ToString

[C#] public const ListItemType Separator;

[C++] public: const ListItemType Separator;

[VB] Public Const Separator As ListItemType

[JScript] public var Separator : ListItemType;

Description

A separator between items in a list control. It is not databound.

ListSelectionMode enumeration (System.Web.UI.WebControls)

ToString

Description

Specifies the selection mode of the **System.Web.UI.WebControls.ListBox** control.

The **System.Web.UI.WebControls.ListSelectionMode** enumeration represents the selection mode of the **System.Web.UI.WebControls.ListBox** control that determines whether a user can select multiple items or just a single item.

ToString

[C#] public const ListSelectionMode Multiple;

[C++] public: const ListSelectionMode Multiple;

[VB] Public Const Multiple As ListSelectionMode

[JScript] public var Multiple : ListSelectionMode;

Description

Multiple item selection mode.

ToString

[C#] public const ListSelectionMode Single;

[C++] public: const ListSelectionMode Single;

[VB] Public Const Single As ListSelectionMode

[JScript] public var Single : ListSelectionMode;

Description

Single item selection mode.

Literal class (System.Web.UI.WebControls)

ToString

Description

Literal

Example Syntax:

ToString

[C#] public Literal();

[C++] public: Literal();

[VB] Public Sub New()

[JScript] public function Literal();

ChildControlsCreated

ClientID

Context

Controls

EnableViewState

Events

HasChildViewState

ID

IsTrackingViewState

NamingContainer

Page

Parent

Site

TemplateSourceDirectory

Text

ToString

UniqueID

ViewState

ViewStateIgnoresCase

Visible

AddParsedSubObject

[C#] protected override void AddParsedSubObject(object obj);

[C++] protected: void AddParsedSubObject(Object* obj);

[VB] Overrides Protected Sub AddParsedSubObject(ByVal obj As Object)

[JScript] protected override function AddParsedSubObject(obj : Object);

CreateControlCollection

[C#] protected override ControlCollection CreateControlCollection();

[C++] protected: ControlCollection* CreateControlCollection();

[VB] Overrides Protected Function CreateControlCollection() As ControlCollection

[JScript] protected override function CreateControlCollection() : ControlCollection;

Render

[C#] protected override void Render(HtmlTextWriter output);

[C++] protected: void Render(HtmlTextWriter* output);

[VB] Overrides Protected Sub Render(ByVal output As HtmlTextWriter)

[JScript] protected override function Render(output : HtmlTextWriter);

LiteralControlBuilder class (System.Web.UI.WebControls)

TrackViewState

LiteralControlBuilder

Example Syntax:

TrackViewState

ControlType

FChildrenAsProperties

FIsNonParserAccessor

HasAspCode

ID

InDesigner

NamingContainerType

Parser

TagName

AllowWhitespaceLiterals

[C#] public override bool AllowWhitespaceLiterals();

[C++] public: bool AllowWhitespaceLiterals();

[VB] Overrides Public Function AllowWhitespaceLiterals() As Boolean

[JScript] public override function AllowWhitespaceLiterals() : Boolean;

AppendSubBuilder

[C#] public override void AppendSubBuilder(ControlBuilder subBuilder);

[C++] public: void AppendSubBuilder(ControlBuilder* subBuilder);

[VB] Overrides Public Sub AppendSubBuilder(ByVal subBuilder As ControlBuilder)

[JScript] public override function AppendSubBuilder(subBuilder : ControlBuilder);

MonthChangedEventArgs class (System.Web.UI.WebControls)

ToString

Description

Provides data for the **System.Web.UI.WebControls.Calendar.VisibleMonthChanged** event of a **System.Web.UI.WebControls.Calendar** . This class cannot be inherited.

The **System.Web.UI.WebControls.Calendar.VisibleMonthChanged** event is raised when the user clicks on the **System.Web.UI.WebControls.Calendar** navigation controls to display the next or previous month.

MonthChangedEventArgs

Example Syntax:

ToString

```
[C#] public MonthChangedEventArgs(DateTime newDate, DateTime previousDate);
[C++] public: MonthChangedEventArgs(DateTime newDate, DateTime previousDate);
[VB] Public Sub New(ByVal newDate As DateTime, ByVal previousDate As DateTime)
[JScript] public function MonthChangedEventArgs(newDate : DateTime, previousDate : DateTime);
```

Description

Initializes a new instance of the **System.Web.UI.WebControls.MonthChangedEventArgs** class.

The following table shows initial property values for an instance of **System.Web.UI.WebControls.MonthChangedEventArgs** . The date that determines the month currently displayed by the **System.Web.UI.WebControls.Calendar**. The date that determines the month previously displayed by the **System.Web.UI.WebControls.Calendar**.

NewDate

ToString

[C#] public DateTime NewDate {get;}

[C++] public: __property DateTime get_NewDate();

[VB] Public ReadOnly Property NewDate As DateTime

[JScript] public function get NewDate() : DateTime;

Description

Gets the date that determines the currently displayed month in the **System.Web.UI.WebControls.Calendar** .

Use this property to get the month currently displayed by the **System.Web.UI.WebControls.Calendar** and to compare the currently displayed month with another month. For example, you can use this property to calculate the number of months until or since a certain date.

PreviousDate

ToString

```
[C#] public DateTime PreviousDate {get;}
[C++] public: __property DateTime get_PreviousDate();
[VB] Public ReadOnly Property PreviousDate As DateTime
[JScript] public function get PreviousDate() : DateTime;
```

Description

Gets the date that determined the previously displayed month in the **System.Web.UI.WebControls.Calendar** .

Use this property to determine the previously displayed month on the **System.Web.UI.WebControls.Calendar** . This date can be used to restore the **System.Web.UI.WebControls.Calendar** back to the previously displayed month by setting the **System.Web.UI.WebControls.Calendar.VisibleDate** property to **System.Web.UI.WebControls.MonthChangedEventArgs.PreviousDate** .

MonthChangedEventHandler delegate (System.Web.UI.WebControls)

ToString

Description

Represents the method that handles the **System.Web.UI.WebControls.Calendar.VisibleMonthChanged** event of a **System.Web.UI.WebControls.Calendar** . The source of the event. A **System.Web.UI.WebControls.MonthChangedEventArgs** that contains the event data.

The **System.Web.UI.WebControls.Calendar.VisibleMonthChanged** event is raised when the user clicks on the navigation controls for the **System.Web.UI.WebControls.Calendar** to display the next or previous month.

NextPrevFormat enumeration (System.Web.UI.WebControls)

ToString

Description

Represents the display format for the previous and next month navigation controls within the **System.Web.UI.WebControls.Calendar** .

The **System.Web.UI.WebControls.NextPrevFormat** enumeration represents the different styles for the next and previous month buttons on the **System.Web.UI.WebControls.Calendar** .

ToString

```
[C#] public const NextPrevFormat CustomText;
[C++] public: const NextPrevFormat CustomText;
[VB] Public Const CustomText As NextPrevFormat
[JScript] public var CustomText : NextPrevFormat;
```

Description

Custom text format for the month navigation controls on the **System.Web.UI.WebControls.Calendar** .

ToString

```
[C#] public const NextPrevFormat FullMonth;
[C++] public: const NextPrevFormat FullMonth;
[VB] Public Const FullMonth As NextPrevFormat
[JScript] public var FullMonth : NextPrevFormat;
```

Description

Full month name format for the month navigation controls on the **System.Web.UI.WebControls.Calendar** . For example, "January".

ToString

```
[C#] public const NextPrevFormat ShortMonth;
[C++] public: const NextPrevFormat ShortMonth;
[VB] Public Const ShortMonth As NextPrevFormat
[JScript] public var ShortMonth : NextPrevFormat;
```

Description

Abbreviated month name format for the month navigation controls on the **System.Web.UI.WebControls.Calendar** . For example, "Jan".

PagedDataSource class (System.Web.UI.WebControls)

ToString

Description

Provides a wrapper over an **System.Collections.ICollection** data source to implement paging semantics or 'paged views' on top of the underlying datasource. This class cannot be inherited.

This class uses the best available interface to enumerate over the data belonging to the current page. If the underlying data source supports indexed access (like **System.Array** and **System.Collections.IList**), this wrapper uses it. Otherwise it falls back on **System.Collections.IEnumerable** .

PagedDataSource

Example Syntax:

ToString

[C#] public PagedDataSource();

[C++] public: PagedDataSource();

[VB] Public Sub New()

[JScript] public function PagedDataSource();

Description

Initializes a new instance of the **System.Web.UI.WebControls.PagedDataSource** class.

The following table shows initial property values for an instance of **System.Web.UI.WebControls.PagedDataSource** .

AllowCustomPaging

ToString

[C#] public bool AllowCustomPaging {get; set;}

```
[C++] public: __property bool get_AllowCustomPaging();public: __property void set_AllowCustomPaging(bool);
[VB] Public Property AllowCustomPaging As Boolean
[JScript] public function get AllowCustomPaging() : Boolean;public function set AllowCustomPaging(Boolean);
```

Description

Gets or sets a value indicating whether to assume the underlying data source contains data for just the current page.

This is only applicable if AllowPaging is true. In this scenario, the developer can fetch just the right number of items from the DataSet to fill up a single page, which may be more efficient based on the source of the data.

AllowPaging

ToString

```
[C#] public bool AllowPaging {get; set;}
[C++] public: __property bool get_AllowPaging();public: __property void set_AllowPaging(bool);
[VB] Public Property AllowPaging As Boolean
[JScript] public function get AllowPaging() : Boolean;public function set AllowPaging(Boolean);
```

Description

Gets or sets a value indicating whether to implement page semantics on top of the underlying datasource.

Count

ToString

[C#] public int Count {get;}

[C++] public: __property int get_Count();

[VB] Public ReadOnly Property Count As Integer

[JScript] public function get Count() : int;

Description

Gets the number of items to be used from the datasource.

This takes into account several factors such as paged/non-paged modes, custom paging, and last page.

CurrentPageIndex

ToString

[C#] public int CurrentPageIndex {get; set;}

[C++] public: __property int get_CurrentPageIndex();public: __property void set_CurrentPageIndex(int);

[VB] Public Property CurrentPageIndex As Integer

[JScript] public function get CurrentPageIndex() : int;public function set CurrentPageIndex(int);

Description

Gets or sets a value indicating the index of the current page.

DataSource

ToString

[C#] public IEnumerable DataSource {get; set;}

[C++] public: __property IEnumerable* get_DataSource();public: __property void set_DataSource(IEnumerable*);

[VB] Public Property DataSource As IEnumerable

[JScript] public function get DataSource() : IEnumerable;public function set DataSource(IEnumerable);

Description

Gets or sets the data source.

DataSourceCount

ToString

[C#] public int DataSourceCount {get;}

[C++] public: __property int get_DataSourceCount();

[VB] Public ReadOnly Property DataSourceCount As Integer

[JScript] public function get DataSourceCount() : int;

Description

Gets the item count of the data source.

FirstIndexInPage

ToString

[C#] public int FirstIndexInPage {get;}

[C++] public: __property int get_FirstIndexInPage();

[VB] Public ReadOnly Property FirstIndexInPage As Integer

[JScript] public function get FirstIndexInPage() : int;

Description

Gets the first index in the page.

IsCustomPagingEnabled

ToString

[C#] public bool IsCustomPagingEnabled {get;}

[C++] public: __property bool get_IsCustomPagingEnabled();

[VB] Public ReadOnly Property IsCustomPagingEnabled As Boolean

[JScript] public function get IsCustomPagingEnabled() : Boolean;

Description

Gets a value indicating whether custom paging is enabled.

IsFirstPage

ToString

[C#] public bool IsFirstPage {get;}

[C++] public: __property bool get_IsFirstPage();

[VB] Public ReadOnly Property IsFirstPage As Boolean

[JScript] public function get IsFirstPage() : Boolean;

Description

Gets a value indicating if the current page is the first page.

IsLastPage

ToString

[C#] public bool IsLastPage {get;}

[C++] public: __property bool get_IsLastPage();

[VB] Public ReadOnly Property IsLastPage As Boolean

[JScript] public function get IsLastPage() : Boolean;

Description

Gets a value indicating if the current page is the last page.

IsPagingEnabled

ToString

[C#] public bool IsPagingEnabled {get;}

[C++] public: __property bool get_IsPagingEnabled();

[VB] Public ReadOnly Property IsPagingEnabled As Boolean

[JScript] public function get IsPagingEnabled() : Boolean;

Description

Gets a value indicating whether paging is enabled.

IsReadOnly

ToString

[C#] public bool IsReadOnly {get;}

```
[C++] public: __property bool get_IsReadOnly();
[VB] Public ReadOnly Property IsReadOnly As Boolean
[JScript] public function get IsReadOnly() : Boolean;
```

Description

Gets a value indicating whether the data source is read-only.

IsSynchronized

ToString

```
[C#] public bool IsSynchronized {get;}
[C++] public: __property bool get_IsSynchronized();
[VB] Public ReadOnly Property IsSynchronized As Boolean
[JScript] public function get IsSynchronized() : Boolean;
```

Description

Gets a value indicating whether access to the data source is synchronized (thread-safe).

PageCount

ToString

```
[C#] public int PageCount {get;}
[C++] public: __property int get_PageCount();
[VB] Public ReadOnly Property PageCount As Integer
[JScript] public function get PageCount() : int;
```

Description

Gets the page count.

PageSize

ToString

[C#] public int PageSize {get; set;}

[C++] public: __property int get_PageSize();public: __property void set_PageSize(int);

[VB] Public Property PageSize As Integer

[JScript] public function get PageSize() : int;public function set PageSize(int);

Description

Gets or sets the page size.

SyncRoot

ToString

[C#] public object SyncRoot {get;}

[C++] public: __property Object* get_SyncRoot();

[VB] Public ReadOnly Property SyncRoot As Object

[JScript] public function get SyncRoot() : Object;

Description

Gets the object that can be used to synchronize access to the collection. In this case, it is the collection itself.

VirtualCount

ToString

[C#] public int VirtualCount {get; set;}

[C++] public: __property int get_VirtualCount();public: __property void set_VirtualCount(int);

[VB] Public Property VirtualCount As Integer

[JScript] public function get VirtualCount() : int;public function set VirtualCount(int);

Description

Gets or sets the virtual count.

CopyTo

[C#] public void CopyTo(Array array, int index);

[C++] public: __sealed void CopyTo(Array* array, int index);

[VB] NotOverridable Public Sub CopyTo(ByVal array As Array, ByVal index As Integer)

[JScript] public function CopyTo(array : Array, index : int);

Description

Copies contents from the data source to the specified **System.Array** with the specified starting index. The specified **System.Array** that receives copied contents from the data source. The starting position in the specified **System.Array** to receive copied contents.

GetEnumerator

[C#] public IEnumerator GetEnumerator();

[C++] public: __sealed IEnumerator* GetEnumerator();

[VB] NotOverridable Public Function GetEnumerator() As IEnumerator

[JScript] public function GetEnumerator() : IEnumerator;

Description

Returns an enumerator of all items within the data source.

Return Value: An enumerator that enumerates over all items within the data source.

GetItemProperties

[C#] public PropertyDescriptorCollection GetItemProperties(PropertyDescriptor[] listAccessors);

[C++] public: __sealed PropertyDescriptorCollection* GetItemProperties(PropertyDescriptor* listAccessors[]);

[VB] NotOverridable Public Function GetItemProperties(ByVal listAccessors() As PropertyDescriptor) As PropertyDescriptorCollection

[JScript] public function GetItemProperties(listAccessors : PropertyDescriptor[]) : PropertyDescriptorCollection;

GetListName

[C#] public string GetListName(PropertyDescriptor[] listAccessors);

[C++] public: __sealed String* GetListName(PropertyDescriptor* listAccessors[]);

[VB] NotOverridable Public Function GetListName(ByVal listAccessors() As PropertyDescriptor) As String

[JScript] public function GetListName(listAccessors : PropertyDescriptor[]) : String;

PagerMode enumeration (System.Web.UI.WebControls)

ToString

Description

Represents the mode of the pager for accessing various pages within the **System.Web.UI.WebControls.DataGrid** control.

The **System.Web.UI.WebControls.PagerMode** enumeration represents the different display modes for the pager of a **System.Web.UI.WebControls.DataGrid** control.

ToString

[C#] public const PagerMode NextPrev;

[C++] public: const PagerMode NextPrev;

[VB] Public Const NextPrev As PagerMode

[JScript] public var NextPrev : PagerMode;

Description

A pager with **Previous** and **Next** buttons to access the next and previous pages.

ToString

[C#] public const PagerMode NumericPages;

[C++] public: const PagerMode NumericPages;

[VB] Public Const NumericPages As PagerMode

[JScript] public var NumericPages : PagerMode;

Description

A pager with numbered buttons to access pages directly.

PagerPosition enumeration (System.Web.UI.WebControls)

ToString

Description

Specifies the position of the pager for accessing various pages within the **System.Web.UI.WebControls.DataGrid** control.

The **System.Web.UI.WebControls.PagerPosition** enumeration represents the different locations where the pager can be displayed.

ToString

[C#] public const PagerPosition Bottom;

[C++] public: const PagerPosition Bottom;

[VB] Public Const Bottom As PagerPosition

[JScript] public var Bottom : PagerPosition;

Description

A pager positioned at the bottom of the **System.Web.UI.WebControls.DataGrid** .

ToString

[C#] public const PagerPosition Top;

[C++] public: const PagerPosition Top;

[VB] Public Const Top As PagerPosition

[JScript] public var Top : PagerPosition;

Description

A pager positioned at the top of the **System.Web.UI.WebControls.DataGrid** .

ToString

[C#] public const PagerPosition TopAndBottom;

[C++] public: const PagerPosition TopAndBottom;

[VB] Public Const TopAndBottom As PagerPosition

[JScript] public var TopAndBottom : PagerPosition;

Description

Pagers positioned at both the top and the bottom of the **System.Web.UI.WebControls.DataGrid** .

Panel class (System.Web.UI.WebControls)

ToString

Description

Represents a control that acts as a container for other controls.

The **System.Web.UI.WebControls.Panel** control is a container for other controls. It is especially useful when you want to generate controls programmatically or hide/show a group of controls.

Panel

Example Syntax:

ToString

[C#] public Panel();

[C++] public: Panel();

[VB] Public Sub New()

[JScript] public function Panel();

Description

Initializes a new instance of the **System.Web.UI.WebControls.Panel** class.

AccessKey

Attributes

BackColor

BackImageUrl

ToString

Description

Gets or sets the URL of the background image for the panel control.

Use this property to display a custom image for the **System.Web.UI.WebControls.Panel** control.

BorderColor

BorderStyle

BorderWidth

ChildControlsCreated

ClientID

Context

Controls

ControlStyle

ControlStyleCreated

CssClass

Enabled

EnableViewState

Events

Font

ForeColor

HasChildViewState

Height

HorizontalAlign

ToString

Description

Gets or sets the horizontal alignment of the contents within the panel.

Use this property to specify the alignment of the elements in the **System.Web.UI.WebControls.Panel** .

ID

IsTrackingViewState

NamingContainer

Page

Parent

Site

Style

TabIndex

TagKey

TagName

TemplateSourceDirectory

ToolTip

UniqueID

ViewState

ViewStateIgnoresCase

Visible

Width

Wrap

ToString

Description

Gets or sets a value indicating whether the content wraps within the panel.

Use this property to wrap the contents of the **System.Web.UI.WebControls.Panel** .

AddAttributesToRender

[C#] protected override void AddAttributesToRender(HtmlTextWriter writer);

[C++] protected: void AddAttributesToRender(HtmlTextWriter* writer);

[VB] Overrides Protected Sub AddAttributesToRender(ByVal writer As HtmlTextWriter)

[JScript] protected override function AddAttributesToRender(writer : HtmlTextWriter);

Description

Add background-image to list of style attributes to render. Add align and nowrap to list of attributes to render.

PlaceHolder class (System.Web.UI.WebControls)

TrackViewState

Description

A container to store dynamically added server controls on the Web page.

Use the **System.Web.UI.WebControls.PlaceHolder** control as a container to store dynamically added server controls to the Web page. The **System.Web.UI.WebControls.PlaceHolder** control does not produce any visible output and is only used as a container for other controls on the Web page. You can use the **System.Web.UI.Control.Controls** collection to add, insert, or remove a control from the **System.Web.UI.WebControls.PlaceHolder** control.

PlaceHolder

Example Syntax:

TrackViewState

[C#] public PlaceHolder();

[C++] public: PlaceHolder();

[VB] Public Sub New()

[JScript] public function PlaceHolder();

ChildControlsCreated

ClientID

Context

Controls

EnableViewState

Events

HasChildViewState

ID

IsTrackingViewState

NamingContainer

Page

Parent

Site

TemplateSourceDirectory

UniqueID

ViewState

ViewStateIgnoresCase

Visible

PlaceHolderControlBuilder class (System.Web.UI.WebControls)

TrackViewState

System.Web.UI.WebControls.PlaceHolder

PlaceHolderControlBuilder

Example Syntax:

TrackViewState

ControlType

FChildrenAsProperties

FIsNonParserAccessor

HasAspCode

ID

InDesigner

NamingContainerType

Parser

TagName

AllowWhitespaceLiterals

```
[C#] public override bool AllowWhitespaceLiterals();
```

[C++] public: bool AllowWhitespaceLiterals();

[VB] Overrides Public Function AllowWhitespaceLiterals() As Boolean

[JScript] public override function AllowWhitespaceLiterals() : Boolean; Specifies whether white space literals are allowed.

RadioButton class (System.Web.UI.WebControls)

ToString

Description

Represents a radio button control.

The **System.Web.UI.WebControls.RadioButton** server control permits you to intersperse the radio buttons in a group with other content in the page. The buttons are grouped logically because they all share the same **System.Web.UI.WebControls.RadioButton.GroupName** .

RadioButton

Example Syntax:

ToString

[C#] public RadioButton();

[C++] public: RadioButton();

[VB] Public Sub New()

[JScript] public function RadioButton();

Description

Initializes a new instance of the **System.Web.UI.WebControls.RadioButton** class.

AccessKey

Attributes

AutoPostBack

BackColor

BorderColor

BorderStyle

BorderWidth

Checked

ChildControlsCreated

ClientID

Context

Controls

ControlStyle

ControlStyleCreated

CssClass

Enabled

EnableViewState

Events

Font

ForeColor

GroupName

ToString

Description

Gets or sets the name of the group that the radio button belongs to.

Use this property to specify a grouping of radio buttons to create a mutually exclusive set of controls. The property can be used when only one selection is possible from a list of available options, as in the case of gender.

HasChildViewState

Height

ID

IsTrackingViewState

NamingContainer

Page

Parent

Site

Style

TabIndex

TagKey

TagName

TemplateSourceDirectory

Text

TextAlign

ToolTip

UniqueID

ViewState

ViewStateIgnoresCase

Visible

Width

OnPreRender

[C#] protected override void OnPreRender(EventArgs e);

[C++] protected: void OnPreRender(EventArgs* e);

[VB] Overrides Protected Sub OnPreRender(ByVal e As EventArgs)

[JScript] protected override function OnPreRender(e : EventArgs);

Description

This method is invoked just prior to rendering. Register client script for handling postback if onChangeHandler is set.

IPostBackDataHandler.LoadPostData

[C#] bool IPostBackDataHandler.LoadPostData(string postDataKey, NameValueCollection postCollection);

[C++] bool IPostBackDataHandler::LoadPostData(String* postDataKey, NameValueCollection* postCollection);

[VB] Function LoadPostData(ByVal postDataKey As String, ByVal postCollection As NameValueCollection) As Boolean Implements IPostBackDataHandler.LoadPostData

[JScript] function IPostBackDataHandler.LoadPostData(postDataKey : String, postCollection : NameValueCollection) : Boolean;

IPostBackDataHandler.RaisePostDataChangedEvent

[C#] void IPostBackDataHandler.RaisePostDataChangedEvent();

[C++] void IPostBackDataHandler::RaisePostDataChangedEvent();

[VB] Sub RaisePostDataChangedEvent() Implements
IPostBackDataHandler.RaisePostDataChangedEvent

[JScript] function IPostBackDataHandler.RaisePostDataChangedEvent();

RadioButtonList class (System.Web.UI.WebControls)

TrackViewState

Description

Represents a list control that encapsulates a group of radio button controls.

The **System.Web.UI.WebControls.RadioButtonList** control provides page developers with a single-selection radio button group that can be dynamically generated via data binding. It contains an **System.Web.UI.WebControls.ListControl.Items** collection with members that correspond to individual items on the list. To determine which item is selected, test the **System.Web.UI.WebControls.ListControl.SelectedItem** property of the list.

RadioButtonList

Example Syntax:

TrackViewState

[C#] public RadioButtonList();

[C++] public: RadioButtonList();

[VB] Public Sub New()

[JScript] public function RadioButtonList();

Description

Initializes a new instance of a **System.Web.UI.WebControls.RadioButtonList** class.

Use this constructor to create and initialize a new instance of the **System.Web.UI.WebControls.RadioButtonList** class.

AccessKey

Attributes

AutoPostBack

BackColor

BorderColor

BorderStyle

BorderWidth

CellPadding

TrackViewState

Description

Gets or sets the distance (in pixels) between the border and the contents of the table cell.

This property only applies when the **System.Web.UI.WebControls.RadioButtonList.RepeatLayout** property is set to **RepeatLayout.Table** .

CellSpacing

TrackViewState

[C#] public virtual int CellSpacing {get; set;}

[C++] public: __property virtual int get_CellSpacing();public: __property virtual void set_CellSpacing(int);

[VB] Overridable Public Property CellSpacing As Integer

[JScript] public function get CellSpacing() : int;public function set CellSpacing(int);

Description

Gets or sets the distance (in pixels) between adjacent table cells.

This property only applies when the **System.Web.UI.WebControls.RadioButtonList.RepeatLayout** property is set to **RepeatLayout.Table** .

ChildControlsCreated

ClientID

Context

Controls

ControlStyle

ControlStyleCreated

CssClass

DataMember

DataSource

DataTextField

DataTextFormatString

DataValueField

Enabled

EnableViewState

Events

Font

ForeColor

HasChildViewState

Height

ID

IsTrackingViewState

Items

NamingContainer

Page

Parent

RepeatColumns

TrackViewState

Description

Gets or sets the number of columns to display in the **System.Web.UI.WebControls.RadioButtonList** control.

Use this property to specify the number of columns that display items in the **System.Web.UI.WebControls.RadioButtonList** control. If this property is not set, the **System.Web.UI.WebControls.RadioButtonList** control will display all items in the list in a single column.

RepeatDirection

TrackViewState

[C#] public virtual RepeatDirection RepeatDirection {get; set;}

[C++] public: __property virtual RepeatDirection get_RepeatDirection();public: __property virtual void set_RepeatDirection(RepeatDirection);

[VB] Overridable Public Property RepeatDirection As RepeatDirection

[JScript] public function get RepeatDirection() : RepeatDirection;public function set RepeatDirection(RepeatDirection);

Description

Gets or sets the direction that the radio buttons within the group are displayed.

Use this property to specify the display direction of the **System.Web.UI.WebControls.RadioButtonList** control.

RepeatLayout

TrackViewState

[C#] public virtual RepeatLayout RepeatLayout {get; set;}

[C++] public: __property virtual RepeatLayout get_RepeatLayout();public: __property virtual void set_RepeatLayout(RepeatLayout);

[VB] Overridable Public Property RepeatLayout As RepeatLayout

[JScript] public function get RepeatLayout() : RepeatLayout;public function set

RepeatLayout(RepeatLayout);

Description

Gets or sets the layout of radio buttons within the group.

Use this property to specify whether the items in the **System.Web.UI.WebControls.RadioButtonList** control are displayed in a table. If this property is set to **RepeatLayout.Table** , the items in the list are displayed in a table. If this property is set to **RepeatLayout.Flow** , the items in the list are displayed without a table structure.

SelectedIndex

SelectedItem

Site

Style

TabIndex

TagKey

TagName

TemplateSourceDirectory

TextAlign

TrackViewState

Description

Gets or sets the text alignment for the radio buttons within the group.

Use this property to specify whether the text associated with the radio buttons appears on the left or right. If this property is set to **TextAlign.Right** , the text is displayed to the right of the radio button. If this property is set to **TextAlign.Left** , the text is displayed to the left of the radio button.

ToolTip

UniqueID

ViewState

ViewStateIgnoresCase

Visible

Width

CreateControlStyle

[C#] protected override Style CreateControlStyle();

[C++] protected: Style* CreateControlStyle();

[VB] Overrides Protected Function CreateControlStyle() As Style

[JScript] protected override function CreateControlStyle() : Style;

Description

Render

[C#] protected override void Render(HtmlTextWriter writer);

[C++] protected: void Render(HtmlTextWriter* writer);

[VB] Overrides Protected Sub Render(ByVal writer As HtmlTextWriter)

[JScript] protected override function Render(writer : HtmlTextWriter);

Description

IPostBackDataHandler.LoadPostData

```
[C#] bool IPostBackDataHandler.LoadPostData(string postDataKey, NameValueCollection postCollection);
[C++] bool IPostBackDataHandler::LoadPostData(String* postDataKey, NameValueCollection* postCollection);
[VB] Function LoadPostData(ByVal postDataKey As String, ByVal postCollection As NameValueCollection) As Boolean Implements IPostBackDataHandler.LoadPostData
[JScript] function IPostBackDataHandler.LoadPostData(postDataKey : String, postCollection : NameValueCollection) : Boolean;
```

IPostBackDataHandler.RaisePostDataChangedEvent

```
[C#] void IPostBackDataHandler.RaisePostDataChangedEvent();
[C++] void IPostBackDataHandler::RaisePostDataChangedEvent();
[VB] Sub RaisePostDataChangedEvent() Implements IPostBackDataHandler.RaisePostDataChangedEvent
[JScript] function IPostBackDataHandler.RaisePostDataChangedEvent();
```

IRepeatInfoUser.GetItemStyle

```
[C#] Style IRepeatInfoUser.GetItemStyle(ListItemType itemType, int repeatIndex);
[C++] Style* IRepeatInfoUser::GetItemStyle(ListItemType itemType, int repeatIndex);
[VB] Function GetItemStyle(ByVal itemType As ListItemType, ByVal repeatIndex As Integer) As Style Implements IRepeatInfoUser.GetItemStyle
```

[JScript] function IRepeatInfoUser.GetItemStyle(itemType : ListItemType, repeatIndex : int) : Style;

IRepeatInfoUser.RenderItem

[C#] void IRepeatInfoUser.RenderItem(ListItemType itemType, int repeatIndex, RepeatInfo repeatInfo, HtmlTextWriter writer);

[C++] void IRepeatInfoUser::RenderItem(ListItemType itemType, int repeatIndex, RepeatInfo* repeatInfo, HtmlTextWriter* writer);

[VB] Sub RenderItem(ByVal itemType As ListItemType, ByVal repeatIndex As Integer, ByVal repeatInfo As RepeatInfo, ByVal writer As HtmlTextWriter) Implements IRepeatInfoUser.RenderItem

[JScript] function IRepeatInfoUser.RenderItem(itemType : ListItemType, repeatIndex : int, repeatInfo : RepeatInfo, writer : HtmlTextWriter);

RangeValidator class (System.Web.UI.WebControls)

TrackViewState

Description

Checks whether the value of an input control is within a specified range of values.

The **System.Web.UI.WebControls.RangeValidator** control tests whether the value of an input control is within a specified range.

RangeValidator

Example Syntax:

TrackViewState

[C#] public RangeValidator();

[C++] public: RangeValidator();

[VB] Public Sub New()

[JScript] public function RangeValidator();

AccessKey

Attributes

BackColor

BorderColor

BorderStyle

BorderWidth

ChildControlsCreated

ClientID

Context

Controls

ControlStyle

ControlStyleCreated

ControlToValidate

CssClass

Display

EnableClientScript

Enabled

EnableViewState

ErrorMessage

Events

Font

ForeColor

HasChildViewState

Height

ID

IsTrackingViewState

IsValid

MaximumValue

TrackViewState

Description

Gets or sets the maximum value of the validation range.

Use the **System.Web.UI.WebControls.RangeValidator.MaximumValue** property to specify the maximum value of the validation range. If the value specified by this property fails to convert to the data type specified by the **System.Web.UI.WebControls.BaseCompareValidator.Type** property, an exception is thrown.

MinimumValue

TrackViewState

[C#] public string MinimumValue {get; set;}

[C++] public: __property String* get_MinimumValue();public: __property void set_MinimumValue(String*);

[VB] Public Property MinimumValue As String

[JScript] public function get MinimumValue() : String;public function set MinimumValue(String);

Description

Gets or sets the minimum value of the validation range.

Use the **System.Web.UI.WebControls.RangeValidator.MinimumValue** property to specify the minimum value of the validation range. If the value specified by this property fails to convert to the data type specified by the **System.Web.UI.WebControls.BaseCompareValidator.Type** property, a trace debug message is generated, the **System.Web.UI.WebControls.BaseValidator.IsValid** property is set to **true** , and no additional processing is performed.

NamingContainer

Page

Parent

PropertiesValid

RenderUplevel

Site

Style

TabIndex

TagKey

TagName

TemplateSourceDirectory

Text

ToolTip

Type

UniqueID

ViewState

ViewStateIgnoresCase

Visible

Width

AddAttributesToRender

[C#] protected override void AddAttributesToRender(HtmlTextWriter writer);

[C++] protected: void AddAttributesToRender(HtmlTextWriter* writer);

[VB] Overrides Protected Sub AddAttributesToRender(ByVal writer As HtmlTextWriter)

[JScript] protected override function AddAttributesToRender(writer : HtmlTextWriter);

Description

AddAttributesToRender method AddAttributesToRender method

ControlPropertiesValid

[C#] protected override bool ControlPropertiesValid();

[C++] protected: bool ControlPropertiesValid();

[VB] Overrides Protected Function ControlPropertiesValid() As Boolean

[JScript] protected override function ControlPropertiesValid() : Boolean;

Description

This is a check of properties to determine any errors made by the developer

This is a check of properties to determine any errors made by the developer

EvaluateIsValid

```
[C#] protected override bool EvaluateIsValid();
[C++] protected: bool EvaluateIsValid();
[VB] Overrides Protected Function EvaluateIsValid() As Boolean
[JScript] protected override function EvaluateIsValid() : Boolean;
```

Description

EvaluateIsValid method EvaluateIsValid method

RegularExpressionValidator class (System.Web.UI.WebControls)

Validate

Description

Validates whether the value of an associated input control matches the pattern specified by a regular expression.

The **System.Web.UI.WebControls.RegularExpressionValidator** control checks whether the value of an input control matches a pattern defined by a regular expression. This type of validation allows you to check for predictable sequences of characters, such as those in social security numbers, e-mail addresses, telephone numbers, and postal codes.

RegularExpressionValidator

Example Syntax:

Validate

[C#] public RegularExpressionValidator();

[C++] public: RegularExpressionValidator();

[VB] Public Sub New()

[JScript] public function RegularExpressionValidator();

AccessKey

Attributes

BackColor

BorderColor

BorderStyle

BorderWidth

ChildControlsCreated

ClientID

Context

Controls

ControlStyle

ControlStyleCreated

ControlToValidate

CssClass

Display

EnableClientScript

Enabled

EnableViewState

ErrorMessage

Events

Font

ForeColor

HasChildViewState

Height

ID

IsTrackingViewState

IsValid

NamingContainer

Page

Parent

PropertiesValid

RenderUplevel

Site

Style

TabIndex

TagKey

TagName

TemplateSourceDirectory

Text

ToolTip

UniqueID

ValidationExpression

Validate

Description

Gets or sets the regular expression that determines the pattern used to validate a field.

Use this property to specify the pattern used to check for predictable sequences of characters, such as those in social security numbers, e-mail addresses, telephone numbers, and postal codes.

ViewState

ViewStateIgnoresCase

Visible

Width

AddAttributesToRender

[C#] protected override void AddAttributesToRender(HtmlTextWriter writer);

[C++] protected: void AddAttributesToRender(HtmlTextWriter* writer);

[VB] Overrides Protected Sub AddAttributesToRender(ByVal writer As HtmlTextWriter)

[JScript] protected override function AddAttributesToRender(writer : HtmlTextWriter);

Description

AddAttributesToRender method AddAttributesToRender method

EvaluateIsValid

```
[C#] protected override bool EvaluateIsValid();
[C++] protected: bool EvaluateIsValid();
[VB] Overrides Protected Function EvaluateIsValid() As Boolean
[JScript] protected override function EvaluateIsValid() : Boolean;
```

Description

EvaluateIsValid method EvaluateIsValid method

RepeatDirection enumeration (System.Web.UI.WebControls)

Validate

Description

Specifies the direction in which items of a list control are displayed.

The **System.Web.UI.WebControls.RepeatDirection** enumeration represents the different directions in which the items of a list control can be displayed.

Validate

```
[C#] public const RepeatDirection Horizontal;
[C++] public: const RepeatDirection Horizontal;
[VB] Public Const Horizontal As RepeatDirection
[JScript] public var Horizontal : RepeatDirection;
```

Description

Items of a list are displayed horizontally in rows from left to right, then top to bottom, until all items are rendered.

Validate

[C#] public const RepeatDirection Vertical;

[C++] public: const RepeatDirection Vertical;

[VB] Public Const Vertical As RepeatDirection

[JScript] public var Vertical : RepeatDirection;

Description

Items of a list are displayed vertically in columns from top to bottom, and then left to right, until all items are rendered.

Repeater class (System.Web.UI.WebControls)

ToString

Description

A databound list control that allows custom layout by repeating a specified template for each item displayed in the list.

The **System.Web.UI.WebControls.Repeater** is a basic templated databound list. It has no built-in layout or styles, so you must explicitly declare all HTML layout, formatting, and style tags within the control's templates.

Repeater

Example Syntax:

ToString

[C#] public Repeater();

[C++] public: Repeater();

[VB] Public Sub New()

[JScript] public function Repeater();

Description

Initializes a new instance of the **System.Web.UI.WebControls.Repeater** class.

AlternatingItemTemplate

ToString

[C#] public virtual ITemplate AlternatingItemTemplate {get; set;}

[C++] public: __property virtual ITemplate* get_AlternatingItemTemplate();public: __property virtual void set_AlternatingItemTemplate(ITemplate*);

[VB] Overridable Public Property AlternatingItemTemplate As ITemplate

[JScript] public function get AlternatingItemTemplate() : ITemplate;public function set AlternatingItemTemplate(ITemplate);

Description

Gets or sets the **System.Web.UI.ITemplate** that defines how alternating (zero-based odd-indexed) items are rendered.

Use this property to provide a different appearance from the **System.Web.UI.WebControls.Repeater.ItemTemplate** for alternating items in the **System.Web.UI.WebControls.Repeater** .

ChildControlsCreated

ClientID

Context

Controls

ToString

DataMember

ToString

Description

Gets or sets the specific table in the **System.Web.UI.WebControls.Repeater.DataSource** to bind to the control.

If the **System.Web.UI.WebControls.Repeater.DataSource** contains multiple tables, use this property to specify the table to bind to the **System.Web.UI.WebControls.Repeater** .

DataSource

ToString

[C#] public virtual object DataSource {get; set;}

[C++] public: __property virtual Object* get_DataSource();public: __property virtual void set_DataSource(Object*);

[VB] Overridable Public Property DataSource As Object

[JScript] public function get DataSource() : Object;public function set DataSource(Object);

Description

Gets or sets the data source that provides data for populating the list.

Use this property to specify the source of data to populate the **System.Web.UI.WebControls.Repeater** control. The **System.Web.UI.WebControls.Repeater.DataSource** can be any **System.Collections.IEnumerable** derived object such as a **System.Data.DataView** for accessing databases, an **System.Collections.ArrayList** , a **System.Collections.Hashtable** , or an array.

EnableViewState

Events

FooterTemplate

ToString

Description

Gets or sets the **System.Web.UI.ITemplate** that defines how the control footer is rendered.

Use this property to create a template that controls how the footer of a **System.Web.UI.WebControls.Repeater** control is displayed.

HasChildViewState

HeaderTemplate

ToString

Description

Gets or sets the **System.Web.UI.ITemplate** that defines how the control header is rendered.

Use this property to create a template that controls how the header of a **System.Web.UI.WebControls.Repeater** control is displayed.

ID

IsTrackingViewState

Items

ToString

Description

Gets a collection of **System.Web.UI.WebControls.RepeaterItem** objects in the **System.Web.UI.WebControls.Repeater** .

The **System.Web.UI.WebControls.Repeater** populates the **System.Web.UI.WebControls.Repeater.Items** collection by enumerating every object in its **System.Web.UI.WebControls.Repeater.DataSource** . The **System.Web.UI.WebControls.Repeater.Items** collection is then used by the **System.Web.UI.WebControls.Repeater** to render each item in the control.

ItemTemplate

ToString

[C#] public virtual ITemplate ItemTemplate {get; set;}

[C++] public: __property virtual ITemplate* get_ItemTemplate();public: __property virtual void set_ItemTemplate(ITemplate*);

[VB] Overridable Public Property ItemTemplate As ITemplate

[JScript] public function get ItemTemplate() : ITemplate;public function set ItemTemplate(ITemplate);

Description

Gets or sets the **System.Web.UI.ITemplate** that defines how items are rendered.

Use this property to create a template that controls how individual items in the **System.Web.UI.WebControls.Repeater** are displayed.

NamingContainer

Page

Parent

SeparatorTemplate

ToString

Description

Gets or sets the **System.Web.UI.ITemplate** that defines how separators between items are rendered.

Use this property to create a template that controls how separators between items are displayed.

Site

TemplateSourceDirectory

UniqueID

ViewState

ViewStateIgnoresCase

Visible

ToString

Description

Occurs when a button is clicked in the **System.Web.UI.WebControls.Repeater** control.

This event is raised when a button in the **System.Web.UI.WebControls.Repeater** is clicked.

ToString

[C#] public event RepeaterItemEventHandler ItemCreated;

[C++] public: __event RepeaterItemEventHandler* ItemCreated;

[VB] Public Event ItemCreated As RepeaterItemEventHandler

Description

Occurs when an item is created in the **System.Web.UI.WebControls.Repeater** control.

This event is raised when an item is created in the **System.Web.UI.WebControls.Repeater** .

ToString

[C#] public event RepeaterItemEventHandler ItemDataBound;

[C++] public: __event RepeaterItemEventHandler* ItemDataBound;

[VB] Public Event ItemDataBound As RepeaterItemEventHandler

Description

Occurs after an item in the **System.Web.UI.WebControls.Repeater** is databound but before it is rendered on the page.

This event is raised when an item in the **System.Web.UI.WebControls.Repeater** is databound.

CreateChildControls

[C#] protected override void CreateChildControls();

[C++] protected: void CreateChildControls();

[VB] Overrides Protected Sub CreateChildControls()

[JScript] protected override function CreateChildControls();

Description

CreateControlHierarchy

[C#] protected virtual void CreateControlHierarchy(bool useDataSource);

[C++] protected: virtual void CreateControlHierarchy(bool useDataSource);

[VB] Overridable Protected Sub CreateControlHierarchy(ByVal useDataSource As Boolean)

[JScript] protected function CreateControlHierarchy(useDataSource : Boolean);

Description

A protected method. Creates a control hierarchy, with or without the data source as specified. Indicates whether to use the data source or not.

CreateItem

[C#] protected virtual RepeaterItem CreateItem(int itemIndex, ListItemType itemType);

[C++] protected: virtual RepeaterItem* CreateItem(int itemIndex, ListItemType itemType);

[VB] Overridable Protected Function CreateItem(ByVal itemIndex As Integer, ByVal itemType As ListItemType) As RepeaterItem

[JScript] protected function CreateItem(itemIndex : int, itemType : ListItemType) : RepeaterItem;

Description

A protected method. Creates a **System.Web.UI.WebControls.RepeaterItem** with the specified item type and location within the **System.Web.UI.WebControls.Repeater** . The specified location within the **System.Web.UI.WebControls.Repeater** to place the created item. A **System.Web.UI.WebControls.ListItemType** that represents the specified type of the **System.Web.UI.WebControls.Repeater** item to create.

DataBind

[C#] public override void DataBind();

[C++] public: void DataBind();

[VB] Overrides Public Sub DataBind()

[JScript] public override function DataBind();

Description

InitializeItem

[C#] protected virtual void InitializeItem(RepeaterItem item);

[C++] protected: virtual void InitializeItem(RepeaterItem* item);

[VB] Overridable Protected Sub InitializeItem(ByVal item As RepeaterItem)

[JScript] protected function InitializeItem(item : RepeaterItem);

Description

A protected method. Populates iteratively the specified **System.Web.UI.WebControls.RepeaterItem** with a sub-hierarchy of child controls. The control to be initialized from an inline template.

OnBubbleEvent

[C#] protected override bool OnBubbleEvent(object sender, EventArgs e);

[C++] protected: bool OnBubbleEvent(Object* sender, EventArgs* e);

[VB] Overrides Protected Function OnBubbleEvent(ByVal sender As Object, ByVal e As EventArgs) As Boolean

[JScript] protected override function OnBubbleEvent(sender : Object, e : EventArgs) : Boolean;

Description

OnDataBinding

[C#] protected override void OnDataBinding(EventArgs e);

[C++] protected: void OnDataBinding(EventArgs* e);

[VB] Overrides Protected Sub OnDataBinding(ByVal e As EventArgs)

[JScript] protected override function OnDataBinding(e : EventArgs);

Description

A protected method. Raises the **DataBinding** event.

OnItemCommand

[C#] protected virtual void OnItemCommand(RepeaterCommandEventArgs e);

[C++] protected: virtual void OnItemCommand(RepeaterCommandEventArgs* e);

[VB] Overridable Protected Sub OnItemCommand(ByVal e As RepeaterCommandEventArgs)

[JScript] protected function OnItemCommand(e : RepeaterCommandEventArgs);

Description

Raises the **System.Web.UI.WebControls.Repeater.ItemCommand** event.

Raising an event invokes the event handler through a delegate. For more information, see . The

System.Web.UI.WebControls.RepeaterCommandEventArgs that contains the event data.

OnItemCreated

[C#] protected virtual void OnItemCreated(RepeaterItemEventArgs e);

[C++] protected: virtual void OnItemCreated(RepeaterItemEventArgs* e);

[VB] Overridable Protected Sub OnItemCreated(ByVal e As RepeaterItemEventArgs)

[JScript] protected function OnItemCreated(e : RepeaterItemEventArgs);

Description

Raises the **System.Web.UI.WebControls.Repeater.ItemCreated** event.

Raising an event invokes the event handler through a delegate. For more information, see . The **System.Web.UI.WebControls.RepeaterItemEventArgs** that contains the event data.

OnItemDataBound

[C#] protected virtual void OnItemDataBound(RepeaterItemEventArgs e);

[C++] protected: virtual void OnItemDataBound(RepeaterItemEventArgs* e);

[VB] Overridable Protected Sub OnItemDataBound(ByVal e As RepeaterItemEventArgs)

[JScript] protected function OnItemDataBound(e : RepeaterItemEventArgs);

Description

Raises the **System.Web.UI.WebControls.Repeater.ItemDataBound** event.

Raising an event invokes the event handler through a delegate. For more information, see . The **System.Web.UI.WebControls.RepeaterItemEventArgs** that contains the event data.

RepeaterCommandEventArgs class (System.Web.UI.WebControls)

TrackViewState

Description

Provides data for the **System.Web.UI.WebControls.Repeater.ItemCommand** event of a **System.Web.UI.WebControls.Repeater** . This class cannot be inherited.

For a list of initial property values for an instance of **System.Web.UI.WebControls.RepeaterCommandEventArgs** , see the **System.Web.UI.WebControls.RepeaterCommandEventArgs.#ctor** constructor. For more information about handling events, see .

RepeaterCommandEventArgs

Example Syntax:

TrackViewState

```
[C#] public RepeaterCommandEventArgs(RepeaterItem item, object commandSource, CommandEventArgs originalArgs);
[C++] public: RepeaterCommandEventArgs(RepeaterItem* item, Object* commandSource, CommandEventArgs* originalArgs);
```

[VB] Public Sub New(ByVal item As RepeaterItem, ByVal commandSource As Object, ByVal originalArgs As CommandEventArgs)

[JScript] public function RepeaterCommandEventArgs(item : RepeaterItem, commandSource : Object, originalArgs : CommandEventArgs);

Description

Initializes a new instance of the **System.Web.UI.WebControls.RepeaterCommandEventArgs** class.

The following table shows initial property values for an instance of **System.Web.UI.WebControls.RepeaterCommandEventArgs** . A **System.Web.UI.WebControls.RepeaterItem** that represents an item in the **System.Web.UI.WebControls.Repeater**. The **System.Web.UI.WebControls.RepeaterCommandEventArgs.Item** property is set to this value. The command source. The **System.Web.UI.WebControls.RepeaterCommandEventArgs.CommandSource** property is set to this value. The original event arguments.

CommandArgument

CommandName

CommandSource

TrackViewState

Description

Gets the source of the command.

Use this property to determine the source of the command.

Item

TrackViewState

[C#] public RepeaterItem Item {get;}

[C++] public: __property RepeaterItem* get_Item();

[VB] Public ReadOnly Property Item As RepeaterItem

[JScript] public function get Item() : RepeaterItem;

Description

Gets the **System.Web.UI.WebControls.RepeaterItem** associated with the event.

Use this property to access the properties of the **System.Web.UI.WebControls.RepeaterItem** associated with this event.

RepeaterCommandEventHandler delegate (System.Web.UI.WebControls)

ToString

Description

Represents the method that will handle the **System.Web.UI.WebControls.Repeater.ItemCommand** event of a **System.Web.UI.WebControls.Repeater** . The source of the event. A **System.Web.UI.WebControls.RepeaterCommandEventArgs** that contains the event data.

When you create a **System.Web.UI.WebControls.RepeaterCommandEventHandler** delegate, you identify the method that will handle the event. To associate the event with your event handler, add an instance of the delegate to the event. The event handler is called whenever the event occurs, unless you remove the delegate. For more information about event handler delegates, see .

RepeaterItem class (System.Web.UI.WebControls)

ToString

Description

Represents an item in the **System.Web.UI.WebControls.Repeater** control.

A **System.Web.UI.WebControls.RepeaterItem** object represents an item in the **System.Web.UI.WebControls.Repeater** control, such as the heading section, footer section, or a data item.

RepeaterItem

Example Syntax:

ToString

[C#] public RepeaterItem(int itemIndex, ListItemType itemType);

[C++] public: RepeaterItem(int itemIndex, ListItemType itemType);

[VB] Public Sub New(ByVal itemIndex As Integer, ByVal itemType As ListItemType)

[JScript] public function RepeaterItem(itemIndex : int, itemType : ListItemType);

Description

Initializes a new instance of the **System.Web.UI.WebControls.RepeaterItem** class.

Use this constructor to create and initialize a new instance of the **System.Web.UI.WebControls.RepeaterItem** class. The index of the item in the **System.Web.UI.WebControls.Repeater** control from the **System.Web.UI.WebControls.Repeater.Items** collection of the control. One of the **System.Web.UI.WebControls.ListItemType** values.

ChildControlsCreated

ClientID

Context

Controls

DataItem

ToString

Description

Gets or sets a data item associated with the **System.Web.UI.WebControls.RepeaterItem** object in the **System.Web.UI.WebControls.Repeater** control.

Use the **System.Web.UI.WebControls.RepeaterItem.DataItem** property to specify or determine the properties of a data item associated with the **System.Web.UI.WebControls.RepeaterItem** object in the **System.Web.UI.WebControls.Repeater** control.

EnableViewState

Events

HasChildViewState

ID

IsTrackingViewState

ItemIndex

ToString

Description

Gets the index of the item in the **System.Web.UI.WebControls.Repeater** control from the **System.Web.UI.WebControls.Repeater.Items** collection of the control.

Use the **System.Web.UI.WebControls.RepeaterItem.ItemIndex** property to determine the index number of the item in the **System.Web.UI.WebControls.Repeater** control from the **System.Web.UI.WebControls.Repeater.Items** collection of the control.

ItemType

ToString

[C#] public virtual ListItemType ItemType {get;}

[C++] public: __property virtual ListItemType get_ItemType();

[VB] Overridable Public ReadOnly Property ItemType As ListItemType

[JScript] public function get ItemType() : ListItemType;

Description

Gets the type of the item in the **System.Web.UI.WebControls.Repeater** control.

Use the **System.Web.UI.WebControls.RepeaterItem.ItemType** property to determine the type of an item in the **System.Web.UI.WebControls.Repeater** control. The following table lists the different item types.

NamingContainer

Page

Parent

Site

TemplateSourceDirectory

UniqueID

ViewState

ViewStateIgnoresCase

Visible

OnBubbleEvent

[C#] protected override bool OnBubbleEvent(object source, EventArgs e);

[C++] protected: bool OnBubbleEvent(Object* source, EventArgs* e);

[VB] Overrides Protected Function OnBubbleEvent(ByVal source As Object, ByVal e As EventArgs) As Boolean

[JScript] protected override function OnBubbleEvent(source : Object, e : EventArgs) : Boolean;

Description

RepeaterItemCollection class (System.Web.UI.WebControls)

TrackViewState

Description

Represents a collection of **System.Web.UI.WebControls.RepeaterItem** objects in the **System.Web.UI.WebControls.Repeater** control. This class cannot be inherited.

The **System.Web.UI.WebControls.RepeaterItemCollection** class represents a collection of **System.Web.UI.WebControls.RepeaterItem** objects, which in turn represent the data items in a **System.Web.UI.WebControls.Repeater** control. To programmatically retrieve **System.Web.UI.WebControls.RepeaterItem** objects from a **System.Web.UI.WebControls.Repeater** control, use one of the following methods: Use the indexer to get a single **System.Web.UI.WebControls.RepeaterItem** object from the collection using array notation.

RepeaterItemCollection

Example Syntax:

TrackViewState

```
[C#] public RepeaterItemCollection(ArrayList items);
[C++] public: RepeaterItemCollection(ArrayList* items);
[VB] Public Sub New(ByVal items As ArrayList)
[JScript] public function RepeaterItemCollection(items : ArrayList);
```

Description

Initializes a new instance of the **System.Web.UI.WebControls.RepeaterItemCollection** class.

Use this constructor to create and initialize a new instance of the **System.Web.UI.WebControls.RepeaterItemCollection** class. A **System.Collections.ArrayList** object that contains the items with which to initialize the collection.

Count

TrackViewState

[C#] public int Count {get;}

[C++] public: __property int get_Count();

[VB] Public ReadOnly Property Count As Integer

[JScript] public function get Count() : int;

Description

Gets the number of **System.Web.UI.WebControls.RepeaterItem** objects in the collection.

Use the **System.Web.UI.WebControls.RepeaterItemCollection.Count** property to determine the number of **System.Web.UI.WebControls.RepeaterItem** objects in the **System.Web.UI.WebControls.RepeaterItemCollection** collection. The **System.Web.UI.WebControls.RepeaterItemCollection.Count** property is commonly used when iterating through the collection to determine the upper bound of the collection.

IsReadOnly

TrackViewState

```
[C#] public bool IsReadOnly {get;}
[C++] public: __property bool get_IsReadOnly();
[VB] Public ReadOnly Property IsReadOnly As Boolean
[JScript] public function get IsReadOnly() : Boolean;
```

Description

Gets a value that indicates whether the **System.Web.UI.WebControls.RepeaterItem** objects in the **System.Web.UI.WebControls.RepeaterItemCollection** can be modified.

This property always returns **false** to indicate that the **System.Web.UI.WebControls.RepeaterItemCollection** can be written to in all cases.

IsSynchronized

TrackViewState

```
[C#] public bool IsSynchronized {get;}
[C++] public: __property bool get_IsSynchronized();
[VB] Public ReadOnly Property IsSynchronized As Boolean
[JScript] public function get IsSynchronized() : Boolean;
```

Description

Gets a value indicating whether access to the **System.Web.UI.WebControls.RepeaterItemCollection** is synchronized (thread-safe).

This property is derived from the **System.Collections.ICollection** class and is overridden to always return **false** .

Item

TrackViewState

[C#] public RepeaterItem this[int index] {get;}

[C++] public: __property RepeaterItem* get_Item(int index);

[VB] Public Default ReadOnly Property Item(ByVal index As Integer) As RepeaterItem

[JScript] returnValue = RepeaterItemCollectionObject.Item(index);

Description

Gets the **System.Web.UI.WebControls.RepeaterItem** object at the specified index in the collection.

Use this indexer to get a **System.Web.UI.WebControls.RepeaterItem** object from the **System.Web.UI.WebControls.RepeaterItemCollection** at the specified index, using array notation. The zero-based index of the **System.Web.UI.WebControls.RepeaterItem** object to retrieve in the collection.

SyncRoot

TrackViewState

```
[C#] public object SyncRoot {get;}
[C++] public: __property Object* get_SyncRoot();
[VB] Public ReadOnly Property SyncRoot As Object
[JScript] public function get SyncRoot() : Object;
```

Description

Gets the object that can be used to synchronize access to the **System.Web.UI.WebControls.RepeaterItemCollection** collection.

The object returned in this implementation is the **System.Web.UI.WebControls.RepeaterItemCollection** object itself.

CopyTo

```
[C#] public void CopyTo(Array array, int index);
[C++] public: __sealed void CopyTo(Array* array, int index);
[VB] NotOverridable Public Sub CopyTo(ByVal array As Array, ByVal index As Integer)
[JScript] public function CopyTo(array : Array, index : int);
```

Description

Copies all the items from this **System.Web.UI.WebControls.RepeaterItemCollection** to the specified **System.Array** object, starting at the specified index in the **System.Array** object.

Use this method to copy the contents of the **System.Web.UI.WebControls.RepeaterItemCollection** into the specified

System.Array object, starting at the specified index. A zero-based **System.Array** object that receives the copied items from the **System.Web.UI.WebControls.RepeaterItemCollection**. The first position in the specified **System.Array** object to receive the copied contents.

GetEnumerator

```
[C#] public IEnumerator GetEnumerator();
[C++] public: __sealed IEnumerator* GetEnumerator();
[VB] NotOverridable Public Function GetEnumerator() As IEnumerator
[JScript] public function GetEnumerator() : IEnumerator;
```

Description

Returns a **System.Collections.IEnumerator** interface that contains all **System.Web.UI.WebControls.RepeaterItem** objects in the **System.Web.UI.WebControls.RepeaterItemCollection** .

Return Value: A **System.Collections.IEnumerator** interface that contains all **System.Web.UI.WebControls.RepeaterItem** objects in the **System.Web.UI.WebControls.RepeaterItemCollection** .

Use this method to create a **System.Collections.IEnumerator** that can be easily iterated through to get each item in the **System.Web.UI.WebControls.RepeaterItemCollection** .

RepeaterItemEventArgs class (System.Web.UI.WebControls)

ToString

Description

Provides data for the **System.Web.UI.WebControls.Repeater.ItemCreated** and **System.Web.UI.WebControls.Repeater.ItemDataBound** events of a **System.Web.UI.WebControls.Repeater** .

For a list of initial property values for an instance of **System.Web.UI.WebControls.RepeaterItemEventArgs** , see the **System.Web.UI.WebControls.RepeaterItemEventArgs.#ctor** constructor.

RepeaterItemEventArgs

Example Syntax:

ToString

```
[C#] public RepeaterItemEventArgs(RepeaterItem item);
[C++] public: RepeaterItemEventArgs(RepeaterItem* item);
[VB] Public Sub New(ByVal item As RepeaterItem)
[JScript] public function RepeaterItemEventArgs(item : RepeaterItem);
```

Description

Initializes a new instance of the **System.Web.UI.WebControls.RepeaterItemEventArgs** class.

The following table shows initial property values for an instance of **System.Web.UI.WebControls.RepeaterItemEventArgs** . The **System.Web.UI.WebControls.RepeaterItem** associated with the event. The

System.Web.UI.WebControls.RepeaterItemEventArgs.Item property is set to this value.

Item

ToString

[C#] public RepeaterItem Item {get;}

[C++] public: __property RepeaterItem* get_Item();

[VB] Public ReadOnly Property Item As RepeaterItem

[JScript] public function get Item() : RepeaterItem;

Description

Gets the **System.Web.UI.WebControls.RepeaterItem** associated with the event.

Use this property to access the properties of the **System.Web.UI.WebControls.RepeaterItem** associated with this event.

RepeaterItemEventHandler delegate (System.Web.UI.WebControls)

ToString

Description

Represents the method that will handle the **System.Web.UI.WebControls.Repeater.ItemCreated** and **System.Web.UI.WebControls.Repeater.ItemDataBound** events of a **System.Web.UI.WebControls.Repeater** . The source of the event. A

System.Web.UI.WebControls.RepeaterItemEventArgs that contains the event data.

When you create a **System.Web.UI.WebControls.RepeaterItemEventHandler** delegate, you identify the method that will handle the event. To associate the event with your event handler, add an instance of the delegate to the event. The event handler is called whenever the event occurs, unless you remove the delegate. For more information about event handler delegates, see .

RepeatInfo class (System.Web.UI.WebControls)

ToString

Description

Defines the information used to render a list of items using a **System.Web.UI.WebControls.Repeater** .

RepeatInfo

Example Syntax:

ToString

[C#] public RepeatInfo();

[C++] public: RepeatInfo();

[VB] Public Sub New()

[JScript] public function RepeatInfo();

Description

Initializes a new instance of the **System.Web.UI.WebControls.RepeatInfo** class. This class is not inheritable.

OuterTableImplied

ToString

[C#] public bool OuterTableImplied {get; set;}

[C++] public: __property bool get_OuterTableImplied();public: __property void set_OuterTableImplied(bool);

[VB] Public Property OuterTableImplied As Boolean

[JScript] public function get OuterTableImplied() : Boolean;public function set OuterTableImplied(Boolean);

Description

Indicates whether an outer table is implied for the items.

RepeatColumns

ToString

[C#] public int RepeatColumns {get; set;}

[C++] public: __property int get_RepeatColumns();public: __property void set_RepeatColumns(int);

[VB] Public Property RepeatColumns As Integer

[JScript] public function get RepeatColumns() : int;public function set RepeatColumns(int);

Description

Indicates the column count of items.

RepeatDirection

ToString

[C#] public RepeatDirection RepeatDirection {get; set;}

[C++] public: __property RepeatDirection get_RepeatDirection();public: __property void set_RepeatDirection(RepeatDirection);

[VB] Public Property RepeatDirection As RepeatDirection

[JScript] public function get RepeatDirection() : RepeatDirection;public function set RepeatDirection(RepeatDirection);

Description

Indicates the direction of flow of items.

RepeatLayout

ToString

[C#] public RepeatLayout RepeatLayout {get; set;}

[C++] public: __property RepeatLayout get_RepeatLayout();public: __property void set_RepeatLayout(RepeatLayout);

[VB] Public Property RepeatLayout As RepeatLayout

[JScript] public function get RepeatLayout() : RepeatLayout;public function set RepeatLayout(RepeatLayout);

Description

Indicates the layout of items.

RenderRepeater

```
[C#] public void RenderRepeater(HtmlTextWriter writer, IRepeatInfoUser user, Style controlStyle, WebControl baseControl);
[C++] public: void RenderRepeater(HtmlTextWriter* writer, IRepeatInfoUser* user, Style* controlStyle, WebControl* baseControl);
[VB] Public Sub RenderRepeater(ByVal writer As HtmlTextWriter, ByVal user As IRepeatInfoUser, ByVal controlStyle As Style, ByVal baseControl As WebControl)
[JScript] public function RenderRepeater(writer : HtmlTextWriter, user : IRepeatInfoUser, controlStyle : Style, baseControl : WebControl);
```

Description

Renders the Repeater with the specified information. The output stream that renders HTML content to the client. The control style to copy. The control to copy base attributes from.

RepeatLayout enumeration (System.Web.UI.WebControls)

ToString

Description

Specifies the layout of items in a list control.

The **System.Web.UI.WebControls.RepeatLayout** enumeration represents the different layout options for a list control.

ToString

```
[C#] public const RepeatLayout Flow;
[C++] public: const RepeatLayout Flow;
[VB] Public Const Flow As RepeatLayout
[JScript] public var Flow : RepeatLayout;
```

Description

Items are displayed without a table structure.

ToString

```
[C#] public const RepeatLayout Table;
[C++] public: const RepeatLayout Table;
[VB] Public Const Table As RepeatLayout
[JScript] public var Table : RepeatLayout;
```

Description

Items are displayed in a table.

RequiredFieldValidator class (System.Web.UI.WebControls)

ToString

Description

Makes the associated input control a required field.

Use this control to make an input control a required field. The input control fails validation if its value does not change from the

System.Web.UI.WebControls.RequiredFieldValidator.InitialValue property upon losing focus.

RequiredFieldValidator

Example Syntax:

ToString

```
[C#] public RequiredFieldValidator();
[C++] public: RequiredFieldValidator();
[VB] Public Sub New()
[JScript] public function RequiredFieldValidator();
```

AccessKey

Attributes

BackColor

BorderColor

BorderStyle

BorderWidth

ChildControlsCreated

ClientID

Context

Controls

ControlStyle

ControlStyleCreated

ControlToValidate

CssClass

Display

EnableClientScript

Enabled

EnableViewState

ErrorMessage

Events

Font

ForeColor

HasChildViewState

Height

ID

InitialValue

ToString

Description

Gets or sets the initial value of the associated input control.

Use this property to specify the initial value of the input control.

IsTrackingViewState

IsValid

NamingContainer

Page

Parent

PropertiesValid

RenderUplevel

Site

Style

TabIndex

TagKey

TagName

TemplateSourceDirectory

Text

ToolTip

UniqueID

ViewState

ViewStateIgnoresCase

Visible

Width

AddAttributesToRender

[C#] protected override void AddAttributesToRender(HtmlTextWriter writer);

[C++] protected: void AddAttributesToRender(HtmlTextWriter* writer);

[VB] Overrides Protected Sub AddAttributesToRender(ByVal writer As HtmlTextWriter)

[JScript] protected override function AddAttributesToRender(writer : HtmlTextWriter);

Description

AddAttributesToRender method AddAttributesToRender method

EvaluateIsValid

[C#] protected override bool EvaluateIsValid();

[C++] protected: bool EvaluateIsValid();

[VB] Overrides Protected Function EvaluateIsValid() As Boolean

[JScript] protected override function EvaluateIsValid() : Boolean;

Description

EvaluateIsValid method EvaluateIsValid method

Table.RowControlCollection class (System.Web.UI.WebControls)

Validate

Description

Count

IsReadOnly

IsSynchronized

Item

Owner

SyncRoot

Add

[C#] public override void Add(Control child);

[C++] public: void Add(Control* child);

[VB] Overrides Public Sub Add(ByVal child As Control)

[JScript] public override function Add(child : Control);

Description

Adds the specified **System.Web.UI.Control** object to the collection. The new control is added to the end of the array.

AddAt

[C#] public override void AddAt(int index, Control child);

[C++] public: void AddAt(int index, Control* child);

[VB] Overrides Public Sub AddAt(ByVal index As Integer, ByVal child As Control)

[JScript] public override function AddAt(index : int, child : Control);

Description

Adds the specified **System.Web.UI.Control** object to the collection. The new control is added to the array at the specified index location. The location in the array to add the child control. The **Control** object to add to the collection.

SelectedDatesCollection class (System.Web.UI.WebControls)

ToString

Description

Encapsulates a collection of **System.DateTime** objects that represent the selected dates in a **System.Web.UI.WebControls.Calendar** control. This class cannot be inherited.

Use this class to programmatically manage a collection of **System.DateTime** objects that represent the selected dates in a **System.Web.UI.WebControls.Calendar** control. This class is commonly used to add or remove dates.

SelectedDatesCollection

Example Syntax:

ToString

[C#] public SelectedDatesCollection(ArrayList dateList);

[C++] public: SelectedDatesCollection(ArrayList* dateList);

[VB] Public Sub New(ByVal dateList As ArrayList)

[JScript] public function SelectedDatesCollection(dateList : ArrayList);

Description

Initializes a new instance of the **System.Web.UI.WebControls.SelectedDatesCollection** class with the specified date list.

Use this constructor to create a new instance of the **System.Web.UI.WebControls.SelectedDatesCollection** class. A **System.Collections.ArrayList** that represents a collection of dates.

Count

ToString

[C#] public int Count {get;}

[C++] public: __property int get_Count();

```
[VB] Public ReadOnly Property Count As Integer
[JScript] public function get Count() : int;
```

Description

Gets the number of **System.DateTime** objects in the **System.Web.UI.WebControls.SelectedDatesCollection** .

Use this property to determine the number of dates in the **System.Web.UI.WebControls.SelectedDatesCollection** . The **System.Web.UI.WebControls.SelectedDatesCollection.Count** property is often used when iterating through the collection to determine the upper bound.

IsReadOnly

ToString

```
[C#] public bool IsReadOnly {get;}
[C++] public: __property bool get_IsReadOnly();
[VB] Public ReadOnly Property IsReadOnly As Boolean
[JScript] public function get IsReadOnly() : Boolean;
```

Description

Gets a value indicating whether the **System.Web.UI.WebControls.SelectedDatesCollection** is read-only.

This property always returns **false** to indicate that the **System.Web.UI.WebControls.SelectedDatesCollection** can be written to in all cases.

IsSynchronized

ToString

```
[C#] public bool IsSynchronized {get;}
[C++] public: __property bool get_IsSynchronized();
[VB] Public ReadOnly Property IsSynchronized As Boolean
[JScript] public function get IsSynchronized() : Boolean;
```

Description

Gets a value indicating whether access to the **System.Web.UI.WebControls.SelectedDatesCollection** is synchronized (thread-safe).

This property is derived from **System.Collections.ICollection** and is overridden to always return **false** .

Item

ToString

```
[C#] public DateTime this[int index] {get;}
[C++] public: __property DateTime get_Item(int index);
[VB] Public Default ReadOnly Property Item(ByVal index As Integer) As
DateTime
[JScript] returnValue = SelectedDatesCollectionObject.Item(index);
```

Description

Gets a **System.DateTime** at the specified index in the **System.Web.UI.WebControls.SelectedDatesCollection** .

Use this indexer to get an individual **System.DateTime** in the **System.Web.UI.WebControls.SelectedDatesCollection** at the specified index using simple array notation. An ordinal index value that specifies which **System.DateTime** to return.

SyncRoot

ToString

```
[C#] public object SyncRoot {get;}
[C++] public: __property Object* get_SyncRoot();
[VB] Public ReadOnly Property SyncRoot As Object
[JScript] public function get SyncRoot() : Object;
```

Description

Gets the object that can be used to synchronize access to the **System.Web.UI.WebControls.SelectedDatesCollection** .

The object returned in this implementation is the **System.Web.UI.WebControls.SelectedDatesCollection** object itself.

Add

```
[C#] public void Add(DateTime date);
[C++] public: void Add(DateTime date);
[VB] Public Sub Add(ByVal date As DateTime)
[JScript] public function Add(date : DateTime);
```

Description

Appends the specified **System.DateTime** to the end of the **System.Web.UI.WebControls.SelectedDatesCollection** .

Use this method to add the specified **System.DateTime** to the end of the **System.Web.UI.WebControls.SelectedDatesCollection** . The **System.DateTime** to add to the collection.

Clear

[C#] public void Clear();

[C++] public: void Clear();

[VB] Public Sub Clear()

[JScript] public function Clear();

Description

Removes all **System.DateTime** controls from the collection.

Use this method to remove all **System.DateTime** objects from the **System.Web.UI.WebControls.SelectedDatesCollection** and set the **System.Web.UI.WebControls.SelectedDatesCollection.Count** property to 0.

Contains

[C#] public bool Contains(DateTime date);

[C++] public: bool Contains(DateTime date);

[VB] Public Function Contains(ByVal date As DateTime) As Boolean

[JScript] public function Contains(date : DateTime) : Boolean;

Description

Returns a value indicating whether the **System.Web.UI.WebControls.SelectedDatesCollection** contains the specified **System.DateTime** object.

Return Value: **true** if the **System.Web.UI.WebControls.SelectedDatesCollection** contains the specified **System.DateTime** ; otherwise, **false** .

Use this method to determine whether the **System.Web.UI.WebControls.SelectedDatesCollection** contains the specified **System.DateTime** . The **System.DateTime** object to search for in the **System.Web.UI.WebControls.SelectedDatesCollection**.

CopyTo

```
[C#] public void CopyTo(Array array, int index);
[C++] public: __sealed void CopyTo(Array* array, int index);
[VB] NotOverridable Public Sub CopyTo(ByVal array As Array, ByVal index As
Integer)
[JScript] public function CopyTo(array : Array, index : int);
```

Description

Copies the items from the **System.Web.UI.WebControls.SelectedDatesCollection** to the specified **System.Array** , starting with the specified index.

Use this method to copy the contents of the **System.Web.UI.WebControls.SelectedDatesCollection** into the specified **System.Array** , starting at the specified index. A zero-based **System.Array** that receives the copied items from the **System.Web.UI.WebControls.SelectedDatesCollection**. The first index in the specified **System.Array** to receive the items.

GetEnumerator

```
[C#] public IEnumerator GetEnumerator();
[C++] public: __sealed IEnumerator* GetEnumerator();
[VB] NotOverridable Public Function GetEnumerator() As IEnumerator
[JScript] public function GetEnumerator() : IEnumerator;
```

Description

Returns a **System.Collections.IEnumerator** that contains all **System.DateTime** objects within the **System.Web.UI.WebControls.SelectedDatesCollection** .

Return Value: A **System.Collections.IEnumerator** that contains all **System.DateTime** objects within the **System.Web.UI.WebControls.SelectedDatesCollection** .

Use this method to create a **System.Collections.IEnumerator** that can be easily iterated through to get each item in the **System.Web.UI.WebControls.SelectedDatesCollection** .

Remove

```
[C#] public void Remove(DateTime date);
[C++] public: void Remove(DateTime date);
[VB] Public Sub Remove(ByVal date As DateTime)
```

[JScript] public function Remove(date : DateTime);

Description

Removes the specified **System.DateTime** object from the **System.Web.UI.WebControls.SelectedDatesCollection** .

Use this method to remove the specified **System.DateTime** from the **System.Web.UI.WebControls.SelectedDatesCollection** . The **System.DateTime** object to remove from the **System.Web.UI.WebControls.SelectedDatesCollection**.

SelectRange

[C#] public void SelectRange(DateTime fromDate, DateTime toDate);

[C++] public: void SelectRange(DateTime fromDate, DateTime toDate);

[VB] Public Sub SelectRange(ByVal fromDate As DateTime, ByVal toDate As DateTime)

[JScript] public function SelectRange(fromDate : DateTime, toDate : DateTime);

Description

Adds the specified range of dates to the **System.Web.UI.WebControls.SelectedDatesCollection** .

Use this method to add the specified range of dates to the **System.Web.UI.WebControls.SelectedDatesCollection** . A **System.DateTime** object that specifies the initial date to add to the **System.Web.UI.WebControls.SelectedDatesCollection**. A **System.DateTime** object that specifies the end date to add to the **System.Web.UI.WebControls.SelectedDatesCollection**.

ServerValidateEventArgs class (System.Web.UI.WebControls)

ToString

Description

Provides data for the **System.Web.UI.WebControls.CustomValidator.ServerValidate** event of the **System.Web.UI.WebControls.CustomValidator** control. This class cannot be inherited.

A **System.Web.UI.WebControls.ServerValidateEventArgs** object is passed to the **System.Web.UI.WebControls.CustomValidator.ServerValidate** event handler to provide event data to the handler. The **System.Web.UI.WebControls.CustomValidator.ServerValidate** event is raised when validation is performed on the server. This allows you to perform a custom server-side validation routine on the value of an input control (with a **System.Web.UI.WebControls.CustomValidator** control associated with it) in the event handler.

ServerValidateEventArgs

Example Syntax:

ToString

[C#] public ServerValidateEventArgs(string value, bool isValid);

[C++] public: ServerValidateEventArgs(String* value, bool isValid);

[VB] Public Sub New(ByVal value As String, ByVal isValid As Boolean)
[JScript] public function ServerValidateEventArgs(value : String, isValid : Boolean);

Description

Initializes a new instance of the **System.Web.UI.WebControls.ServerValidateEventArgs** class.

Use this constructor to create and initialize a new instance of the **System.Web.UI.WebControls.ServerValidateEventArgs** class. The value to validate. **true** to indicate that the value passes validation; otherwise, **false**.

IsValid

ToString

[C#] public bool IsValid {get; set;}
[C++] public: __property bool get_IsValid();public: __property void set_IsValid(bool);
[VB] Public Property IsValid As Boolean
[JScript] public function get IsValid() : Boolean;public function set IsValid(Boolean);

Description

Gets or sets whether the value specified by the **System.Web.UI.WebControls.ServerValidateEventArgs.Value** property passes validation.

Once your validation routine finishes, use the **System.Web.UI.WebControls.ServerValidateEventArgs.IsValid** property to indicate whether the value specified by the **System.Web.UI.WebControls.ServerValidateEventArgs.Value** property passes validation. This value determines whether input control associated with the **System.Web.UI.WebControls.CustomValidator** control passes validation.

Value

ToString

```
[C#] public string Value {get;}
[C++] public: __property String* get_Value();
[VB] Public ReadOnly Property Value As String
[JScript] public function get Value() : String;
```

Description

Gets the value to validate in the custom event handler for the **System.Web.UI.WebControls.CustomValidator.ServerValidate** event.

Use the **System.Web.UI.WebControls.ServerValidateEventArgs.Value** property determine the value to validate in the custom event handler for the **System.Web.UI.WebControls.CustomValidator.ServerValidate** event. Notice that you cannot programmatically change this value.

ServerValidateEventHandler delegate (System.Web.UI.WebControls)

ToString

Description

Represents the method that will handle the **System.Web.UI.WebControls.CustomValidator.ServerValidate** event of a **System.Web.UI.WebControls.CustomValidator** control. The source of the event. A **System.Web.UI.WebControls.ServerValidateEventArgs** that contains the event data.

Use this delegate to provide custom code that performs validation on the server. Your code needs to validate the **System.Web.UI.WebControls.ServerValidateEventArgs.Value** property of the *args* parameter passed to the delegate. Store the result of the validation in the **System.Web.UI.WebControls.ServerValidateEventArgs.IsValid** property of the *args* parameter.

Style class (System.Web.UI.WebControls)

ToString

Description

Represents attributes that define the style of a Web Forms control and provides methods to manage the style.

Style

Example Syntax:

ToString

[C#] public Style();

[C++] public: Style();

[VB] Public Sub New()

[JScript] public function Style(); Initializes a new instance of the **System.Web.UI.WebControls.Style** class without a specified state bag.

Description

Initializes a new instance of the **System.Web.UI.WebControls.Style** class.

Style

Example Syntax:

ToString

[C#] public Style(StateBag bag);

[C++] public: Style(StateBag* bag);

[VB] Public Sub New(ByVal bag As StateBag)

[JScript] public function Style(bag : StateBag);

Description

Initializes a new instance of the **System.Web.UI.WebControls.Style** class with the specified state bag information. Contains the specified state bag information.

BackColor

ToString

[C#] public Color BackColor {get; set;}

[C++] public: __property Color get_BackColor();public: __property void set_BackColor(Color);

[VB] Public Property BackColor As Color

[JScript] public function get BackColor() : Color;public function set BackColor(Color);

Description

Gets or sets the background color property of the **System.Web.UI.WebControls.Style** class.

BorderColor

ToString

[C#] public Color BorderColor {get; set;}

[C++] public: __property Color get_BorderColor();public: __property void set_BorderColor(Color);

[VB] Public Property BorderColor As Color

[JScript] public function get BorderColor() : Color;public function set BorderColor(Color);

Description

Gets or sets the border color property of the **System.Web.UI.WebControls.Style** class.

BorderStyle

ToString

[C#] public BorderStyle BorderStyle {get; set;}

[C++] public: __property BorderStyle get_BorderStyle();public: __property void set_BorderStyle(BorderStyle);

[VB] Public Property BorderStyle As BorderStyle

[JScript] public function get BorderStyle() : BorderStyle;public function set BorderStyle(BorderStyle);

Description

Gets or sets the border style property of the **System.Web.UI.WebControls.Style** class.

BorderWidth

ToString

[C#] public Unit BorderWidth {get; set;}

[C++] public: __property Unit get_BorderWidth();public: __property void set_BorderWidth(Unit);

[VB] Public Property BorderWidth As Unit

[JScript] public function get BorderWidth() : Unit;public function set BorderWidth(Unit);

Description

Gets or sets the border width property of the **System.Web.UI.WebControls.Style** class.

Container

CssClass

ToString

Description

Gets or sets the CSS class property of the **System.Web.UI.WebControls.Style** class.

DesignMode

Events

Font

ToString

Description

Gets a **System.Web.UI.WebControls.FontInfo** object that contains the font properties for the **System.Web.UI.WebControls.Style** class.

ForeColor

ToString

[C#] public Color ForeColor {get; set;}

[C++] public: __property Color get_ForeColor();public: __property void set_ForeColor(Color);

[VB] Public Property ForeColor As Color

[JScript] public function get ForeColor() : Color;public function set

ForeColor(Color);

Description

Gets or sets the foreground color (typically the color of the text) property of the **System.Web.UI.WebControls.Style** class.

Height

ToString

[C#] public Unit Height {get; set;}

[C++] public: __property Unit get_Height();public: __property void set_Height(Unit);

[VB] Public Property Height As Unit

[JScript] public function get Height() : Unit;public function set Height(Unit);

Description

Gets or sets the height property of the **System.Web.UI.WebControls.Style** class.

IsEmpty

ToString

[C#] protected internal virtual bool IsEmpty {get;}

[C++] internal: __property virtual bool get_IsEmpty();

[VB] Overridable Protected Friend ReadOnly Property IsEmpty As Boolean

[JScript] package function get IsEmpty() : Boolean;

Description

A protected property. Gets a value indicating whether any style elements have been defined in the state bag.

IsTrackingViewState

ToString

[C#] protected bool IsTrackingViewState {get;}

[C++] protected: __property bool get_IsTrackingViewState();

[VB] Protected ReadOnly Property IsTrackingViewState As Boolean

[JScript] protected function get IsTrackingViewState() : Boolean;

Description

A protected method. Returns a value indicating whether any style elements have been defined in the state bag.

Return Value: **true** if there are style elements defined in the state bag; otherwise, **false** .

Site

ViewState

ToString

Description

Gets the state bag that holds the style elements.

The private field name for the state bag is case sensitive.

Width

ToString

[C#] public Unit Width {get; set;}

[C++] public: __property Unit get_Width();public: __property void set_Width(Unit);

[VB] Public Property Width As Unit

[JScript] public function get Width() : Unit;public function set Width(Unit);

Description

Gets or sets the width property of the **System.Web.UI.WebControls.Style** class.

AddAttributesToRender

[C#] public void AddAttributesToRender(HtmlTextWriter writer);

[C++] public: void AddAttributesToRender(HtmlTextWriter* writer);

[VB] Public Sub AddAttributesToRender(ByVal writer As HtmlTextWriter)

[JScript] public function AddAttributesToRender(writer : HtmlTextWriter);

Description

Adds all non-blank style attributes to the HTML output stream to be rendered to the client. The output stream that renders HTML content to the client.

AddAttributesToRender

[C#] public virtual void AddAttributesToRender(HtmlTextWriter writer, WebControl owner);

[C++] public: virtual void AddAttributesToRender(HtmlTextWriter* writer, WebControl* owner);

[VB] Overridable Public Sub AddAttributesToRender(ByVal writer As HtmlTextWriter, ByVal owner As WebControl)

[JScript] public function AddAttributesToRender(writer : HtmlTextWriter, owner : WebControl);

Description

Adds all non-blank style attributes to the HTML output stream to be rendered to the client.

CopyFrom

[C#] public virtual void CopyFrom(Style s);

[C++] public: virtual void CopyFrom(Style* s);

[VB] Overridable Public Sub CopyFrom(ByVal s As Style)

[JScript] public function CopyFrom(s : Style);

Description

Copies non-blank elements from the specified style, overwriting existing style elements if necessary. The style to be copied.

LoadViewState

[C#] protected internal void LoadViewState(object state);

[C++] protected public: void LoadViewState(Object* state);

```
[VB] Protected Friend Dim Sub LoadViewState(ByVal state As Object)
[JScript] package function LoadViewState(state : Object);
```

Description

A protected method. Load the previously saved state. The previously saved state.

MergeWith

```
[C#] public virtual void MergeWith(Style s);
[C++] public: virtual void MergeWith(Style* s);
[VB] Overridable Public Sub MergeWith(ByVal s As Style)
[JScript] public function MergeWith(s : Style);
```

Description

Copies non-blank elements from the specified style, but will not overwrite any existing style elements. The style to be copied.

Reset

```
[C#] public virtual void Reset();
[C++] public: virtual void Reset();
[VB] Overridable Public Sub Reset()
[JScript] public function Reset();
```

Description

Clears out any defined style elements from the state bag.

SaveViewState

[C#] protected internal virtual object SaveViewState();

[C++] protected public: virtual Object* SaveViewState();

[VB] Overridable Protected Friend Dim Function SaveViewState() As Object

[JScript] package function SaveViewState() : Object;

Description

A protected method. Saves any state that has been modified after the **System.Web.UI.WebControls.Style.TrackViewState** method was invoked.

Return Value: An object that represents the saved state. The default is **null** .

SetBit

[C#] protected internal virtual void SetBit(int bit);

[C++] protected public: virtual void SetBit(int bit);

[VB] Overridable Protected Friend Dim Sub SetBit(ByVal bit As Integer)

[JScript] package function SetBit(bit : int);

Description

A protected internal method.

IStateManager.LoadViewState

[C#] void IStateManager.LoadViewState(object state);

[C++] void IStateManager::LoadViewState(Object* state);

[VB] Sub LoadViewState(ByVal state As Object) Implements

IStateManager.LoadViewState

[JScript] function IStateManager.LoadViewState(state : Object);

IStateManager.SaveViewState

[C#] object IStateManager.SaveViewState();

[C++] Object* IStateManager::SaveViewState();

[VB] Function SaveViewState() As Object Implements IStateManager.SaveViewState

[JScript] function IStateManager.SaveViewState() : Object;

IStateManager.TrackViewState

[C#] void IStateManager.TrackViewState();

[C++] void IStateManager::TrackViewState();

[VB] Sub TrackViewState() Implements IStateManager.TrackViewState

[JScript] function IStateManager.TrackViewState();

ToString

[C#] public override string ToString();

[C++] public: String* ToString();

[VB] Overrides Public Function ToString() As String

[JScript] public override function ToString() : String;

Description

Overrides the **ToString** method to return **System.String.Empty** .

Return Value: **System.String.Empty** for all cases.

TrackViewState

[C#] protected internal virtual void TrackViewState();

[C++] protected public: virtual void TrackViewState();

[VB] Overridable Protected Friend Dim Sub TrackViewState()

[JScript] package function TrackViewState();

Description

A protected method. Marks the beginning for tracking state changes on the control. Any changes made after "mark" will be tracked and saved as part of the control viewstate.

Table class (System.Web.UI.WebControls)

TrackViewState

Description

Constructs a table and defines its properties.

The **System.Web.UI.WebControls.Table** class allows you to build an HTML table and specify its characteristics in a straightforward manner, using the same abstract object model for building any other Web controls. A table can be built at design time given some static contents, but the power of a **System.Web.UI.WebControls.Table** Web control is often realized when the table is built programmatically with dynamic contents. In addition, as for other Web controls, the same code to render a table yields appropriate output accordingly for both downleveling and upleveling browsers.

Table

Example Syntax:

TrackViewState

[C#] public Table();

[C++] public: Table();

[VB] Public Sub New()

[JScript] public function Table();

Description

Initializes a new instance of the **System.Web.UI.WebControls.Table** class.

AccessKey

Attributes

BackColor

BackImageUrl

TrackViewState

Description

Indicates the URL of the background image to display behind the table. The image will be tiled if it is smaller than the table.

BorderColor

BorderStyle

BorderWidth

CellPadding

TrackViewState

Description

Gets or sets the distance (in pixels) between the border and the contents of the table cell.

CellSpacing

TrackViewState

[C#] public virtual int CellSpacing {get; set;}

[C++] public: __property virtual int get_CellSpacing();public: __property virtual void set_CellSpacing(int);

[VB] Overridable Public Property CellSpacing As Integer

[JScript] public function get CellSpacing() : int;public function set CellSpacing(int);

Description

Gets or sets the distance (in pixels) between table cells.

ChildControlsCreated

ClientID

Context

Controls

ControlStyle

ControlStyleCreated

CssClass

Enabled

EnableViewState

Events

Font

ForeColor

GridLines

TrackViewState

Description

Gets or sets the gridlines property of the **System.Web.UI.WebControls.Table** class.

HasChildViewState

Height

HorizontalAlign

TrackViewState

Description

Gets or sets the horizontal alignment of the table within the page.

ID

IsTrackingViewState

NamingContainer

Page

Parent

Rows

TrackViewState

Description

Gets the collection of rows within the table.

This property is only used when building tables programmatically. At design time, the property is set by declaring **TableRow** Web controls.

Site

Style

TabIndex

TagKey

TagName

TemplateSourceDirectory

ToolTip

UniqueID

ViewState

ViewStateIgnoresCase

Visible

Width

AddAttributesToRender

[C#] protected override void AddAttributesToRender(HtmlTextWriter writer);

[C++] protected: void AddAttributesToRender(HtmlTextWriter* writer);

[VB] Overrides Protected Sub AddAttributesToRender(ByVal writer As HtmlTextWriter)

[JScript] protected override function AddAttributesToRender(writer : HtmlTextWriter);

Description

A protected method. Adds information about the border color and border width HTML attributes to the list of attributes to render. The output stream that renders HTML content to the client.

CreateControlCollection

[C#] protected override ControlCollection CreateControlCollection();

[C++] protected: ControlCollection* CreateControlCollection();

[VB] Overrides Protected Function CreateControlCollection() As ControlCollection

[JScript] protected override function CreateControlCollection() : ControlCollection;

Description

CreateControlStyle

[C#] protected override Style CreateControlStyle();

[C++] protected: Style* CreateControlStyle();

[VB] Overrides Protected Function CreateControlStyle() As Style

[JScript] protected override function CreateControlStyle() : Style;

Description

A protected method. Creates a table control style.

Return Value: A **System.Web.UI.WebControls.Style** that specifies the table control style.

RenderContents

[C#] protected override void RenderContents(HtmlTextWriter writer);

[C++] protected: void RenderContents(HtmlTextWriter* writer);

[VB] Overrides Protected Sub RenderContents(ByVal writer As HtmlTextWriter)

[JScript] protected override function RenderContents(writer : HtmlTextWriter);

Description

A protected method. The output stream that renders HTML content to the client.

TableCell class (System.Web.UI.WebControls)

TrackViewState

Description

Represents a cell in a **System.Web.UI.WebControls.Table** control.

The **System.Web.UI.WebControls.TableCell** class represents a cell in a **System.Web.UI.WebControls.Table** control. You can use the

System.Web.UI.WebControls.TableCell.Text property to specify or determine the contents of the cell.

TableCell

Example Syntax:

TrackViewState

[C#] public TableCell();

[C++] public: TableCell();

[VB] Public Sub New()

[JScript] public function TableCell();

Description

Initializes a new instance of the **System.Web.UI.WebControls.TableCell** class.

Use this constructor to create and initialize a new instance of the **System.Web.UI.WebControls.TableCell** class.

AccessKey

Attributes

BackColor

BorderColor

BorderStyle

BorderWidth

ChildControlsCreated

ClientID

ColumnSpan

TrackViewState

Description

Gets or sets the number of columns in the **System.Web.UI.WebControls.Table** control that the cell spans.

Use the **System.Web.UI.WebControls.TableCell.ColumnSpan** property to specify or determine the number of columns in the rendered table that the cell spans. For example, if you set this property to **2** , the cell takes up two columns in the **System.Web.UI.WebControls.Table** control.

Context

Controls

ControlStyle

ControlStyleCreated

CssClass

Enabled

EnableViewState

Events

Font

ForeColor

HasChildViewState

Height

HorizontalAlign

TrackViewState

Description

Gets or sets the horizontal alignment of the contents in the cell.

Use the **System.Web.UI.WebControls.TableCell.HorizontalAlign** property to specify the horizontal alignment of the contents of the cell. The following table lists the possible values.

ID

IsTrackingViewState

NamingContainer

Page

Parent

RowSpan

TrackViewState

Description

Gets or sets the number of rows in the **System.Web.UI.WebControls.Table** control that the cell spans.

Use the **System.Web.UI.WebControls.TableCell.RowSpan** property to specify or determine the number of rows in the rendered table that the cell spans. For example, if you set this property to **2** , the cell takes up two rows in the **System.Web.UI.WebControls.Table** control.

Site

Style

TabIndex

TagKey

TagName

TemplateSourceDirectory

Text

TrackViewState

Description

Gets or sets the text contents of the cell.

Use the **System.Web.UI.WebControls.TableCell.Text** property to specify or determine the text contents of the cell. This property is commonly used to programmatically update the contents of a cell.

ToolTip

UniqueID

VerticalAlign

TrackViewState

Description

Gets or sets the vertical alignment of the contents in the cell.

Use the **System.Web.UI.WebControls.TableCell.VerticalAlign** property to specify the vertical alignment of the contents of the cell. The following table lists the possible values.

ViewState

ViewStateIgnoresCase

Visible

Width

Wrap

TrackViewState

Description

Gets or sets a value that indicates whether the content of the cell wrap in the cell.

Use the **System.Web.UI.WebControls.TableCell.Wrap** property to specify or determine whether the content of the cell wrap in the cell.

AddAttributesToRender

```
[C#] protected override void AddAttributesToRender(HtmlTextWriter writer);
[C++] protected: void AddAttributesToRender(HtmlTextWriter* writer);
[VB] Overrides Protected Sub AddAttributesToRender(ByVal writer As HtmlTextWriter)
[JScript] protected override function AddAttributesToRender(writer : HtmlTextWriter);
```

Description

A protected method. Adds information about the column span and row span to the list of attributes to render. The output stream that renders HTML content to the client.

AddParsedSubObject

[C#] protected override void AddParsedSubObject(object obj);

[C++] protected: void AddParsedSubObject(Object* obj);

[VB] Overrides Protected Sub AddParsedSubObject(ByVal obj As Object)

[JScript] protected override function AddParsedSubObject(obj : Object);

CreateControlStyle

[C#] protected override Style CreateControlStyle();

[C++] protected: Style* CreateControlStyle();

[VB] Overrides Protected Function CreateControlStyle() As Style

[JScript] protected override function CreateControlStyle() : Style;

Description

A protected method. Creates a table item control style.

Return Value: A **System.Web.UI.WebControls.Style** that specifies the table item control style.

RenderContents

[C#] protected override void RenderContents(HtmlTextWriter writer);

[C++] protected: void RenderContents(HtmlTextWriter* writer);

[VB] Overrides Protected Sub RenderContents(ByVal writer As HtmlTextWriter)

[JScript] protected override function RenderContents(writer : HtmlTextWriter);

Description

A protected method. The output stream that renders HTML content to the client.

TableCellCollection class (System.Web.UI.WebControls)

TrackViewState

Description

Encapsulates a collection of **System.Web.UI.WebControls.TableHeaderCell** and **System.Web.UI.WebControls.TableCell** objects that make up a row in a **System.Web.UI.WebControls.Table** control. This class cannot be inherited.

Use this class to programmatically manage a collection of **System.Web.UI.WebControls.TableCell** objects that make up a row in a **System.Web.UI.WebControls.Table** control. This class is commonly used to add or remove cells from a row in a **System.Web.UI.WebControls.Table** control.

Count

TrackViewState

[C#] public int Count {get;}

[C++] public: __property int get_Count();

[VB] Public ReadOnly Property Count As Integer

[JScript] public function get Count() : int;

Description

Gets the number of **System.Web.UI.WebControls.TableCell** objects in the **System.Web.UI.WebControls.TableCellCollection** .

Use this property to determine the number of cells in the **System.Web.UI.WebControls.TableCellCollection** . The **System.Web.UI.WebControls.TableCellCollection.Count** property is often used when iterating through the collection to determine the upper bound.

IsReadOnly

TrackViewState

```
[C#] public bool IsReadOnly {get;}
[C++] public: __property bool get_IsReadOnly();
[VB] Public ReadOnly Property IsReadOnly As Boolean
[JScript] public function get IsReadOnly() : Boolean;
```

Description

Gets a value indicating whether the **System.Web.UI.WebControls.TableCellCollection** is read-only.

This property always returns **false** to indicate that the **System.Web.UI.WebControls.TableCellCollection** can be written to in all cases.

IsSynchronized

TrackViewState

```
[C#] public bool IsSynchronized {get;}
[C++] public: __property bool get_IsSynchronized();
[VB] Public ReadOnly Property IsSynchronized As Boolean
```

[JScript] public function get IsSynchronized() : Boolean;

Description

Gets a value indicating whether access to the **System.Web.UI.WebControls.TableCellCollection** is synchronized (thread-safe).

This property is derived from **System.Collections.ICollection** and is overridden to always return **false** .

Item

TrackViewState

[C#] public TableCell this[int index] {get;}

[C++] public: __property TableCell* get_Item(int index);

[VB] Public Default ReadOnly Property Item(ByVal index As Integer) As TableCell

[JScript] returnValue = TableCellCollectionObject.Item(index);

Description

Gets a **System.Web.UI.WebControls.TableCell** from the **System.Web.UI.WebControls.TableCellCollection** at the specified index.

Use this indexer to get an individual **System.Web.UI.WebControls.TableCell** in the **System.Web.UI.WebControls.TableCellCollection** at the specified index using simple array notation. An ordinal index value that specifies the **System.Web.UI.WebControls.TableCell** to return.

SyncRoot

TrackViewState

```
[C#] public object SyncRoot {get;}
[C++] public: __property Object* get_SyncRoot();
[VB] Public ReadOnly Property SyncRoot As Object
[JScript] public function get SyncRoot() : Object;
```

Description

Gets the object that can be used to synchronize access to the **System.Web.UI.WebControls.TableCellCollection** .

The object returned in this implementation is the **System.Web.UI.WebControls.TableCellCollection** object.

Add

```
[C#] public int Add(TableCell cell);
[C++] public: int Add(TableCell* cell);
[VB] Public Function Add(ByVal cell As TableCell) As Integer
[JScript] public function Add(cell : TableCell) : int;
```

Description

Appends the specified **System.Web.UI.WebControls.TableCell** to the end of the **System.Web.UI.WebControls.TableCellCollection** .

Use this method to add the specified **System.Web.UI.WebControls.TableCell** to the end of a

System.Web.UI.WebControls.TableCellCollection . The **System.Web.UI.WebControls.TableCell** to add to the collection.

AddAt

```
[C#] public void AddAt(int index, TableCell cell);
[C++] public: void AddAt(int index, TableCell* cell);
[VB] Public Sub AddAt(ByVal index As Integer, ByVal cell As TableCell)
[JScript] public function AddAt(index : int, cell : TableCell);
```

Description

Adds the specified **System.Web.UI.WebControls.TableCell** to the **System.Web.UI.WebControls.TableCellCollection** at the specified index location.

Use this method to insert the specified **System.Web.UI.WebControls.TableCell** in a **System.Web.UI.WebControls.TableCellCollection** at the specified index. The location in the **System.Web.UI.WebControls.TableCellCollection** at which to add the **System.Web.UI.WebControls.TableCell**. The **System.Web.UI.WebControls.TableCell** to add to the **System.Web.UI.WebControls.TableCellCollection**.

AddRange

```
[C#] public void AddRange(TableCell[] cells);
[C++] public: void AddRange(TableCell* cells[]);
[VB] Public Sub AddRange(ByVal cells() As TableCell)
```

[JScript] public function AddRange(cells : TableCell[]);

Description

Clear

[C#] public void Clear();

[C++] public: __sealed void Clear();

[VB] NotOverridable Public Sub Clear()

[JScript] public function Clear(); Removes all **System.Web.UI.WebControls.TableCell** objects from the **System.Web.UI.WebControls.TableCellCollection** .

Description

Removes all **System.Web.UI.WebControls.TableCell** objects from the **System.Web.UI.WebControls.TableCellCollection** .

Use this method to remove all **System.Web.UI.WebControls.TableCell** objects from the **System.Web.UI.WebControls.TableCellCollection** and set the **System.Web.UI.WebControls.TableCellCollection.Count** property to 0.

CopyTo

[C#] public void CopyTo(Array array, int index);

[C++] public: __sealed void CopyTo(Array* array, int index);

[VB] NotOverridable Public Sub CopyTo(ByVal array As Array, ByVal index As Integer)

[JScript] public function CopyTo(array : Array, index : int);

Description

Copies the items from the **System.Web.UI.WebControls.TableCellCollection** to the specified **System.Array** , starting with the specified index in the **System.Array** .

Use this method to copy the contents of the **System.Web.UI.WebControls.TableCellCollection** into the specified **System.Array** starting at the specified index. A zero-based **System.Array** that receives the copied items from the **System.Web.UI.WebControls.TableCellCollection**. The first index in the specified **System.Array** to receive the items.

GetCellIndex

```
[C#] public int GetCellIndex(TableCell cell);
[C++] public: int GetCellIndex(TableCell* cell);
[VB] Public Function GetCellIndex(ByVal cell As TableCell) As Integer
[JScript] public function GetCellIndex(cell : TableCell) : int;
```

Description

Returns a value that represents the index of the specified **System.Web.UI.WebControls.TableCell** from the **System.Web.UI.WebControls.TableCellCollection** .

Return Value: The index of the specified **System.Web.UI.WebControls.TableCell** within the

System.Web.UI.WebControls.TableCellCollection . The default is -1, which indicates that a match has not been found.

Use this method to determine the index of the specified **System.Web.UI.WebControls.TableCell** in the **System.Web.UI.WebControls.TableCellCollection** . If the specified **System.Web.UI.WebControls.TableCell** is not found, an index of -1 is returned. The **System.Web.UI.WebControls.TableCell** to get the index of in the **System.Web.UI.WebControls.TableCellCollection**.

GetEnumerator

```
[C#] public IEnumerator GetEnumerator();
[C++] public: __sealed IEnumerator* GetEnumerator();
[VB] NotOverridable Public Function GetEnumerator() As IEnumerator
[JScript] public function GetEnumerator() : IEnumerator;
```

Description

Returns a **System.Collections.IEnumerator** that contains all **System.Web.UI.WebControls.TableCell** objects in the **System.Web.UI.WebControls.TableCellCollection** .

Return Value: A **System.Collections.IEnumerator** that contains all **System.Web.UI.WebControls.TableCell** objects within the **System.Web.UI.WebControls.TableCellCollection** .

Use this method to create a **System.Collections.IEnumerator** that can be iterated through easily to get each item in the **System.Web.UI.WebControls.TableCellCollection** .

Remove

```
[C#] public void Remove(TableCell cell);
[C++] public: void Remove(TableCell* cell);
[VB] Public Sub Remove(ByVal cell As TableCell)
[JScript] public function Remove(cell : TableCell);
```

Description

Removes the specified **System.Web.UI.WebControls.TableCell** from the **System.Web.UI.WebControls.TableCellCollection** .

Use this method to remove the specified **System.Web.UI.WebControls.TableCell** from a **System.Web.UI.WebControls.TableCellCollection** . The **System.Web.UI.WebControls.TableCell** to remove from the **System.Web.UI.WebControls.TableCellCollection**.

RemoveAt

```
[C#] public void RemoveAt(int index);
[C++] public: __sealed void RemoveAt(int index);
[VB] NotOverridable Public Sub RemoveAt(ByVal index As Integer)
[JScript] public function RemoveAt(index : int);
```

Description

Removes a **System.Web.UI.WebControls.TableCell** from the **System.Web.UI.WebControls.TableCellCollection** at the specified index.

Use this method to remove a **System.Web.UI.WebControls.TableCell** from a **System.Web.UI.WebControls.TableCellCollection** at the specified index. The index of the **System.Web.UI.WebControls.TableCell** to remove from the **System.Web.UI.WebControls.TableCellCollection**.

IList.Add

```
[C#] int IList.Add(object o);
[C++] int IList::Add(Object* o);
[VB] Function Add(ByVal o As Object) As Integer Implements IList.Add
[JScript] function IList.Add(o : Object) : int;
```

IList.Contains

```
[C#] bool IList.Contains(object o);
[C++] bool IList::Contains(Object* o);
[VB] Function Contains(ByVal o As Object) As Boolean Implements
IList.Contains
[JScript] function IList.Contains(o : Object) : Boolean;
```

IList.IndexOf

```
[C#] int IList.IndexOf(object o);
[C++] int IList::IndexOf(Object* o);
[VB] Function IndexOf(ByVal o As Object) As Integer Implements IList.IndexOf
[JScript] function IList.IndexOf(o : Object) : int;
```

IList.Insert

[C#] void IList.Insert(int index, object o);

[C++] void IList::Insert(int index, Object* o);

[VB] Sub Insert(ByVal index As Integer, ByVal o As Object) Implements IList.Insert

[JScript] function IList.Insert(index : int, o : Object);

IList.Remove

[C#] void IList.Remove(object o);

[C++] void IList::Remove(Object* o);

[VB] Sub Remove(ByVal o As Object) Implements IList.Remove

[JScript] function IList.Remove(o : Object);

TableCellControlBuilder class (System.Web.UI.WebControls)

ToString

Description

Interacts with the parser to build a **System.Web.UI.WebControls.TableCell** control.

To create a custom control builder for a **System.Web.UI.WebControls.TableCell** derived control, you need to inherit from this class.

TableCellControlBuilder

Example Syntax:

ToString

[C#] public TableCellControlBuilder();

[C++] public: TableCellControlBuilder();

[VB] Public Sub New()

[JScript] public function TableCellControlBuilder();

ControlType

FChildrenAsProperties

FIsNonParserAccessor

HasAspCode

ID

InDesigner

NamingContainerType

Parser

TagName

AllowWhitespaceLiterals

[C#] public override bool AllowWhitespaceLiterals();

[C++] public: bool AllowWhitespaceLiterals();

[VB] Overrides Public Function AllowWhitespaceLiterals() As Boolean

[JScript] public override function AllowWhitespaceLiterals() : Boolean;

Description

Specifies whether white space literals are allowed.

Return Value: **false** for all cases.

This method overrides **System.Web.UI.ControlBuilder.AllowWhitespaceLiterals** to ignore white space in the **System.Web.UI.WebControls.TableCell** control.

TableHeaderCell class (System.Web.UI.WebControls)

ToString

Description

Represents a heading cell within a **System.Web.UI.WebControls.Table** control.

The **System.Web.UI.WebControls.TableHeaderCell** class represents a heading cell in a **System.Web.UI.WebControls.Table** control. You can use the **System.Web.UI.WebControls.TableCell.Text** property to specify or determine the contents of the heading cell.

TableHeaderCell

Example Syntax:

ToString

```
[C#] public TableHeaderCell();
[C++] public: TableHeaderCell();
[VB] Public Sub New()
[JScript] public function TableHeaderCell();
```

Description

Initializes a new instance of the **System.Web.UI.WebControls.TableHeaderCell** class.

Use this contructor to create and initialize a new instance of the **System.Web.UI.WebControls.TableHeaderCell** class.

AccessKey

Attributes

BackColor

BorderColor

BorderStyle

BorderWidth

ChildControlsCreated

ClientID

ColumnSpan

Context

Controls

ControlStyle

ControlStyleCreated

CssClass

Enabled

EnableViewState

Events

Font

ForeColor

HasChildViewState

Height

HorizontalAlign

ID

IsTrackingViewState

NamingContainer

Page

Parent

RowSpan

Site

Style

TabIndex

TagKey

TagName

TemplateSourceDirectory

Text

ToolTip

UniqueID

VerticalAlign

ViewState

ViewStateIgnoresCase

Visible

Width

Wrap

TableItemStyle class (System.Web.UI.WebControls)

TrackViewState

Description

Specifies the style for an item in a table control.

The **System.Web.UI.WebControls.TableItemStyle** class represents the style properties for an item in the **System.Web.UI.WebControls.Table** control. You can control the a Specifies the style of the table item.

TableItemStyle

Example Syntax:

TrackViewState

[C#] public TableItemStyle();

[C++] public: TableItemStyle();

[VB] Public Sub New()

[JScript] public function TableItemStyle(); Creates a new instance of the **System.Web.UI.WebControls.TableItemStyle** class.

Description

Creates a new instance of the **System.Web.UI.WebControls.TableItemStyle** class.

TableItemStyle

Example Syntax:

TrackViewState

[C#] public TableItemStyle(StateBag bag);

[C++] public: TableItemStyle(StateBag* bag);

[VB] Public Sub New(ByVal bag As StateBag)

[JScript] public function TableItemStyle(bag : StateBag);

Description

Creates a new instance of the **System.Web.UI.WebControls.TableItemStyle** class with the specified state bag.

The specified state bag.

BackColor

BorderColor

BorderStyle

BorderWidth

Container

CssClass

DesignMode

Events

Font

ForeColor

Height

HorizontalAlign

TrackViewState

Description

Gets or sets the horizontal alignment of the cell content.

IsEmpty

IsTrackingViewState

Site

VerticalAlign

TrackViewState

Description

Gets or sets the vertical alignment of the cell content.

ViewState

Width

Wrap

TrackViewState

Description

Gets or sets a value indicating whether the cell content wraps within the cell.

AddAttributesToRender

[C#] public override void AddAttributesToRender(HtmlTextWriter writer, WebControl owner);

[C++] public: void AddAttributesToRender(HtmlTextWriter* writer, WebControl* owner);

[VB] Overrides Public Sub AddAttributesToRender(ByVal writer As

HtmlTextWriter, ByVal owner As WebControl)

[JScript] public override function AddAttributesToRender(writer : HtmlTextWriter, owner : WebControl);

Description

Adds information about horizontal alignment, vertical alignment, and wrap to the list of attributes to render. The output stream that renders HTML content to the client. The control that the style refers to.

CopyFrom

[C#] public override void CopyFrom(Style s);

[C++] public: void CopyFrom(Style* s);

[VB] Overrides Public Sub CopyFrom(ByVal s As Style)

[JScript] public override function CopyFrom(s : Style);

Description

Copies non-blank elements from the specified style, overwriting existing style elements if necessary. The style to copy.

MergeWith

[C#] public override void MergeWith(Style s);

[C++] public: void MergeWith(Style* s);

[VB] Overrides Public Sub MergeWith(ByVal s As Style)

[JScript] public override function MergeWith(s : Style);

Description

Copies non-blank elements from the specified style, but will not overwrite any existing style elements. The style to copy.

Reset

[C#] public override void Reset();

[C++] public: void Reset();

[VB] Overrides Public Sub Reset()

[JScript] public override function Reset();

Description

Clears out any defined style elements from the state bag.

TableRow class (System.Web.UI.WebControls)

TrackViewState

Description

Represents a row in a **System.Web.UI.WebControls.Table** control.

The **System.Web.UI.WebControls.TableRow** class represents a row in a **System.Web.UI.WebControls.Table** control.

TableRow

Example Syntax:

TrackViewState

```
[C#] public TableRow();
[C++] public: TableRow();
[VB] Public Sub New()
[JScript] public function TableRow();
```

Description

Initializes a new instance of the **System.Web.UI.WebControls.TableRow** class.

Use this constructor to create and initialize a new instance of the **System.Web.UI.WebControls.TableRow** class.

AccessKey

Attributes

BackColor

BorderColor

BorderStyle

BorderWidth

Cells

TrackViewState

Description

Gets a collection of **System.Web.UI.WebControls.TableCell** objects that represent the cells of a row in a **System.Web.UI.WebControls.Table** control.

Use this property to programmatically control a collection of **System.Web.UI.WebControls.TableCell** objects that represent the cells from a row of the **System.Web.UI.WebControls.Table** control. You can programmatically add, insert, or remove a **System.Web.UI.WebControls.TableCell** object from the collection.

ChildControlsCreated

ClientID

Context

Controls

ControlStyle

ControlStyleCreated

CssClass

Enabled

EnableViewState

Events

Font

ForeColor

HasChildViewState

Height

HorizontalAlign

TrackViewState

Description

Gets or sets the horizontal alignment of the contents in the row.

Use the **System.Web.UI.WebControls.TableRow.HorizontalAlign** property to specify the horizontal alignment of the contents of the row. The following table lists the possible values.

ID

IsTrackingViewState

NamingContainer

Page

Parent

Site

Style

TabIndex

TagKey

TagName

TemplateSourceDirectory

ToolTip

UniqueID

VerticalAlign

TrackViewState

Description

Gets or sets the vertical alignment of the contents in the row.

Use the **System.Web.UI.WebControls.TableRow.VerticalAlign** property to specify the vertical alignment of the contents of the row. The following table lists the possible values.

ViewState

ViewStateIgnoresCase

Visible

Width

CreateControlCollection

[C#] protected override ControlCollection CreateControlCollection();

[C++] protected: ControlCollection* CreateControlCollection();

[VB] Overrides Protected Function CreateControlCollection() As ControlCollection

[JScript] protected override function CreateControlCollection() : ControlCollection;

Description

CreateControlStyle

[C#] protected override Style CreateControlStyle();

[C++] protected: Style* CreateControlStyle();

[VB] Overrides Protected Function CreateControlStyle() As Style

[JScript] protected override function CreateControlStyle() : Style;

Description

A protected method. Creates a table item control style.

Return Value: A **System.Web.UI.WebControls.Style** that specifies the table item control style.

TableRowCollection class (System.Web.UI.WebControls)

TrackViewState

Description

Encapsulates a collection of **System.Web.UI.WebControls.TableRow** objects that represent a single row in a **System.Web.UI.WebControls.Table** control. This class cannot be inherited.

Use this class to programmatically manage a collection of **System.Web.UI.WebControls.TableRow** objects. This class is commonly used to add or remove rows from a **System.Web.UI.WebControls.Table** control.

Count

TrackViewState

```
[C#] public int Count {get;}
[C++] public: __property int get_Count();
[VB] Public ReadOnly Property Count As Integer
[JScript] public function get Count() : int;
```

Description

Gets the number of **System.Web.UI.WebControls.TableRow** objects in the **System.Web.UI.WebControls.TableRowCollection** .

Use this property to determine the number of rows in the **System.Web.UI.WebControls.TableRowCollection** . The **System.Web.UI.WebControls.TableRowCollection.Count** property is often used when iterating through the collection to determine the upper bound.

IsReadOnly

TrackViewState

[C#] public bool IsReadOnly {get;}

[C++] public: __property bool get_IsReadOnly();

[VB] Public ReadOnly Property IsReadOnly As Boolean

[JScript] public function get IsReadOnly() : Boolean;

Description

Gets a value indicating whether the **System.Web.UI.WebControls.TableRowCollection** is read-only.

This property always returns **false** to indicate that the **System.Web.UI.WebControls.TableRowCollection** can be written to in all cases.

IsSynchronized

TrackViewState

[C#] public bool IsSynchronized {get;}

[C++] public: __property bool get_IsSynchronized();

[VB] Public ReadOnly Property IsSynchronized As Boolean

[JScript] public function get IsSynchronized() : Boolean;

Description

Gets a value indicating whether access to the **System.Web.UI.WebControls.TableRowCollection** is synchronized (thread-safe).

This property is derived from **System.Collections.ICollection** and is overridden to always return **false** .

Item

TrackViewState

```
[C#] public TableRow this[int index] {get;}
[C++] public: __property TableRow* get_Item(int index);
[VB] Public Default ReadOnly Property Item(ByVal index As Integer) As
TableRow
[JScript] returnValue = TableRowCollectionObject.Item(index);
```

Description

Gets a **System.Web.UI.WebControls.TableRow** from the **System.Web.UI.WebControls.TableRowCollection** at the specified index.

Use this indexer to get an individual **System.Web.UI.WebControls.TableRow** from the **System.Web.UI.WebControls.TableRowCollection** at the specified index using simple array notation. An ordinal index value that specifies which **System.Web.UI.WebControls.TableRow** to return.

SyncRoot

TrackViewState

```
[C#] public object SyncRoot {get;}
[C++] public: __property Object* get_SyncRoot();
[VB] Public ReadOnly Property SyncRoot As Object
[JScript] public function get SyncRoot() : Object;
```

Description

Gets the object that can be used to synchronize access to the **System.Web.UI.WebControls.TableRowCollection** .

The object returned in this implementation is the **System.Web.UI.WebControls.TableRowCollection** object itself.

Add

```
[C#] public int Add(TableRow row);
[C++] public: int Add(TableRow* row);
[VB] Public Function Add(ByVal row As TableRow) As Integer
[JScript] public function Add(row : TableRow) : int;
```

Description

Appends the specified **System.Web.UI.WebControls.TableRow** to the end of the **System.Web.UI.WebControls.TableRowCollection** .

Use this method to add a **System.Web.UI.WebControls.TableRow** to the end of a **System.Web.UI.WebControls.TableRowCollection** . The

System.Web.UI.WebControls.TableRow to add to the **System.Web.UI.WebControls.TableRowCollection**.

AddAt

```
[C#] public void AddAt(int index, TableRow row);
[C++] public: void AddAt(int index, TableRow* row);
[VB] Public Sub AddAt(ByVal index As Integer, ByVal row As TableRow)
[JScript] public function AddAt(index : int, row : TableRow);
```

Description

Adds the specified **System.Web.UI.WebControls.TableRow** to the **System.Web.UI.WebControls.TableRowCollection** at the specified index location.

Use this method to insert the specified **System.Web.UI.WebControls.TableRow** in a **System.Web.UI.WebControls.TableRowCollection** at the specified index. The location in the **System.Web.UI.WebControls.TableRowCollection** at which to add the **System.Web.UI.WebControls.TableRow**. The **System.Web.UI.WebControls.TableRow** to add to the **System.Web.UI.WebControls.TableRowCollection**.

AddRange

```
[C#] public void AddRange(TableRow[] rows);
[C++] public: void AddRange(TableRow* rows[]);
[VB] Public Sub AddRange(ByVal rows() As TableRow)
```

[JScript] public function AddRange(rows : TableRow[]);

Description

Clear

[C#] public void Clear();

[C++] public: __sealed void Clear();

[VB] NotOverridable Public Sub Clear()

[JScript] public function Clear();

Description

Removes all **System.Web.UI.WebControls.TableRow** controls from the **System.Web.UI.WebControls.TableRowCollection** .

Use this method to remove all **System.Web.UI.WebControls.TableRow** objects from the **System.Web.UI.WebControls.TableRowCollection** and set the **System.Web.UI.WebControls.TableRowCollection.Count** property to 0.

CopyTo

[C#] public void CopyTo(Array array, int index);

[C++] public: __sealed void CopyTo(Array* array, int index);

[VB] NotOverridable Public Sub CopyTo(ByVal array As Array, ByVal index As Integer)

[JScript] public function CopyTo(array : Array, index : int);

Description

Copies the items from the **System.Web.UI.WebControls.TableRowCollection** to the specified **System.Array** , starting with the specified index in the **System.Array** .

Use this method to copy the contents of the **System.Web.UI.WebControls.TableRowCollection** into the specified **System.Array** , starting at the specified index. A zero-based **System.Array** that receives the copied items from the **System.Web.UI.WebControls.TableRowCollection**. The first position in the specified **System.Array** to receive copied contents.

GetEnumerator

```
[C#] public IEnumerator GetEnumerator();
[C++] public: __sealed IEnumerator* GetEnumerator();
[VB] NotOverridable Public Function GetEnumerator() As IEnumerator
[JScript] public function GetEnumerator() : IEnumerator;
```

Description

Returns an **System.Collections.IEnumerator** that contains all **System.Web.UI.WebControls.TableRow** objects within the **System.Web.UI.WebControls.TableRowCollection** .

Return Value: A **System.Collections.IEnumerator** that contains all **System.Web.UI.WebControls.TableRow** objects within the **System.Web.UI.WebControls.TableRowCollection** .

Use this method to create a **System.Collections.IEnumerator** that can be iterated through easily to get each item in the **System.Web.UI.WebControls.TableRowCollection** .

GetRowIndex

```
[C#] public int GetRowIndex(TableRow row);
[C++] public: int GetRowIndex(TableRow* row);
[VB] Public Function GetRowIndex(ByVal row As TableRow) As Integer
[JScript] public function GetRowIndex(row : TableRow) : int;
```

Description

Returns a value that represents the index of the specified **System.Web.UI.WebControls.TableRow** from the **System.Web.UI.WebControls.TableRowCollection** .

Return Value: The ordinal index position of the specified **System.Web.UI.WebControls.TableRow** within the collection. The default is -1, which indicates that the specified **System.Web.UI.WebControls.TableRow** has not been found.

Use this method to determine the index of the specified **System.Web.UI.WebControls.TableRow** in the **System.Web.UI.WebControls.TableRowCollection** . If the specified **System.Web.UI.WebControls.TableRow** is not found, an index of -1 is returned. The **System.Web.UI.WebControls.TableRow** to search for in the **System.Web.UI.WebControls.TableRowCollection**.

Remove

[C#] public void Remove(TableRow row);

[C++] public: void Remove(TableRow* row);

[VB] Public Sub Remove(ByVal row As TableRow)

[JScript] public function Remove(row : TableRow);

Description

Removes the specified **System.Web.UI.WebControls.TableRow** from the **System.Web.UI.WebControls.TableRowCollection** .

Use this method to remove the specified **System.Web.UI.WebControls.TableRow** from a **System.Web.UI.WebControls.TableRowCollection** . The **System.Web.UI.WebControls.TableRow** to remove from the **System.Web.UI.WebControls.TableRowCollection**.

RemoveAt

[C#] public void RemoveAt(int index);

[C++] public: __sealed void RemoveAt(int index);

[VB] NotOverridable Public Sub RemoveAt(ByVal index As Integer)

[JScript] public function RemoveAt(index : int);

Description

Removes a **System.Web.UI.WebControls.TableRow** from the **System.Web.UI.WebControls.TableRowCollection** at the specified index.

Use this method to remove a **System.Web.UI.WebControls.TableRow** from the **System.Web.UI.WebControls.TableRowCollection** at the specified index. The index of the **System.Web.UI.WebControls.TableRow** to remove from the **System.Web.UI.WebControls.TableRowCollection**.

IList.Add

```
[C#] int IList.Add(object o);
[C++] int IList::Add(Object* o);
[VB] Function Add(ByVal o As Object) As Integer Implements IList.Add
[JScript] function IList.Add(o : Object) : int;
```

IList.Contains

```
[C#] bool IList.Contains(object o);
[C++] bool IList::Contains(Object* o);
[VB] Function Contains(ByVal o As Object) As Boolean Implements
IList.Contains
[JScript] function IList.Contains(o : Object) : Boolean;
```

IList.IndexOf

```
[C#] int IList.IndexOf(object o);
[C++] int IList::IndexOf(Object* o);
[VB] Function IndexOf(ByVal o As Object) As Integer Implements IList.IndexOf
[JScript] function IList.IndexOf(o : Object) : int;
```

IList.Insert

[C#] void IList.Insert(int index, object o);

[C++] void IList::Insert(int index, Object* o);

[VB] Sub Insert(ByVal index As Integer, ByVal o As Object) Implements IList.Insert

[JScript] function IList.Insert(index : int, o : Object);

IList.Remove

[C#] void IList.Remove(object o);

[C++] void IList::Remove(Object* o);

[VB] Sub Remove(ByVal o As Object) Implements IList.Remove

[JScript] function IList.Remove(o : Object);

TableStyle class (System.Web.UI.WebControls)

ToString

Description

Specifies the style for a table control.

This is used primarily by control developers.

TableStyle

Example Syntax:

ToString

[C#] public TableStyle();

[C++] public: TableStyle();

[VB] Public Sub New()

[JScript] public function TableStyle(); Initializes a new instance of the **System.Web.UI.WebControls.TableStyle** class.

Description

Initializes a new instance of the **System.Web.UI.WebControls.TableStyle** class using default values.

TableStyle

Example Syntax:

ToString

[C#] public TableStyle(StateBag bag);

[C++] public: TableStyle(StateBag* bag);

[VB] Public Sub New(ByVal bag As StateBag)

[JScript] public function TableStyle(bag : StateBag);

Description

Initializes a new instance of the **System.Web.UI.WebControls.TableStyle** class with the specified state bag information.

BackColor

BackImageUrl

ToString

Description

Gets or sets the URL of an image to display in the background of a table control.

The image will be tiled if it is smaller than the table.

BorderColor

BorderStyle

BorderWidth

CellPadding

ToString

Description

Gets or sets the distance between the border and the contents of the table cell.

CellSpacing

ToString

[C#] public virtual int CellSpacing {get; set;}

[C++] public: __property virtual int get_CellSpacing();public: __property virtual void set_CellSpacing(int);

[VB] Overridable Public Property CellSpacing As Integer

[JScript] public function get CellSpacing() : int;public function set CellSpacing(int);

Description

Gets or sets the distance between table cells.

Container

CssClass

DesignMode

Events

Font

ForeColor

GridLines

ToString

Description

Gets or sets the gridlines property of the table.

Height

HorizontalAlign

ToString

Description

Gets or sets the horizontal alignment of the table within the page.

IsEmpty

IsTrackingViewState

Site

ViewState

Width

AddAttributesToRender

```
[C#] public override void AddAttributesToRender(HtmlTextWriter writer,
WebControl owner);
[C++] public: void AddAttributesToRender(HtmlTextWriter* writer,
WebControl* owner);
[VB] Overrides Public Sub AddAttributesToRender(ByVal writer As
HtmlTextWriter, ByVal owner As WebControl)
[JScript] public override function AddAttributesToRender(writer :
HtmlTextWriter, owner : WebControl);
```

Description

Adds information about the background image, callspacing, cellpadding, gridlines, and alignment to the list of attributes to render. The output stream that renders HTML content to the client. The control associated with the style.

CopyFrom

```
[C#] public override void CopyFrom(Style s);
[C++] public: void CopyFrom(Style* s);
[VB] Overrides Public Sub CopyFrom(ByVal s As Style)
[JScript] public override function CopyFrom(s : Style);
```

Description

Copies non-blank elements from the specified style, overwriting existing style elements if necessary. The style to copy.

MergeWith

[C#] public override void MergeWith(Style s);

[C++] public: void MergeWith(Style* s);

[VB] Overrides Public Sub MergeWith(ByVal s As Style)

[JScript] public override function MergeWith(s : Style);

Description

Copies non-blank elements from the specified style, but will not overwrite any existing style elements. The style to copy.

Reset

[C#] public override void Reset();

[C++] public: void Reset();

[VB] Overrides Public Sub Reset()

[JScript] public override function Reset();

Description

Clears out any defined style elements from the state bag.

TargetConverter class (System.Web.UI.WebControls)

TrackViewState

Description

TargetConverter

Example Syntax:

TrackViewState

[C#] public TargetConverter();

[C++] public: TargetConverter();

[VB] Public Sub New()

[JScript] public function TargetConverter();

GetStandardValues

[C#] public override StandardValuesCollection GetStandardValues(ITypeDescriptorContext context);

[C++] public: StandardValuesCollection* GetStandardValues(ITypeDescriptorContext* context);

[VB] Overrides Public Function GetStandardValues(ByVal context As ITypeDescriptorContext) As StandardValuesCollection

[JScript] public override function GetStandardValues(context : ITypeDescriptorContext) : StandardValuesCollection;

Description

GetStandardValuesExclusive

[C#] public override bool GetStandardValuesExclusive(ITypeDescriptorContext context);

[C++] public: bool GetStandardValuesExclusive(ITypeDescriptorContext* context);

[VB] Overrides Public Function GetStandardValuesExclusive(ByVal context As

ITypeDescriptorContext) As Boolean

[JScript] public override function GetStandardValuesExclusive(context : ITypeDescriptorContext) : Boolean;

Description

GetStandardValuesSupported

[C#] public override bool GetStandardValuesSupported(ITypeDescriptorContext context);

[C++] public: bool GetStandardValuesSupported(ITypeDescriptorContext* context);

[VB] Overrides Public Function GetStandardValuesSupported(ByVal context As ITypeDescriptorContext) As Boolean

[JScript] public override function GetStandardValuesSupported(context : ITypeDescriptorContext) : Boolean;

Description

TemplateColumn class (System.Web.UI.WebControls)

ToString

Description

A column type for the **System.Web.UI.WebControls.DataGrid** control that allows you to customize the layout of controls in the column.

Use the **System.Web.UI.WebControls.TemplateColumn** column type in a **System.Web.UI.WebControls.DataGrid** control to create a column with a customized control layout.

TemplateColumn

Example Syntax:

ToString

[C#] public TemplateColumn();

[C++] public: TemplateColumn();

[VB] Public Sub New()

[JScript] public function TemplateColumn();

Description

Initializes a new instance of the **System.Web.UI.WebControls.TemplateColumn** class.

Use this constructor to create and initializes a new instance of the **System.Web.UI.WebControls.TemplateColumn** class.

DesignMode

EditItemTemplate

ToString

Description

Gets or sets the template for this column for the item selected for editing in the **System.Web.UI.WebControls.DataGrid** control.

Use the **System.Web.UI.WebControls.TemplateColumn.EditItemTemplate** property to control the contents of the item selected for editing in the column of the **System.Web.UI.WebControls.DataGrid** control.

FooterStyle

FooterTemplate

ToString

Description

Gets or sets the template for the footer section of this column in the **System.Web.UI.WebControls.DataGrid** control.

Use the **System.Web.UI.WebControls.DataList.FooterTemplate** property to control the contents of the footer section.

FooterText

HeaderImageUrl

HeaderStyle

HeaderTemplate

ToString

Description

Gets or sets the template for the heading section of this column in the **System.Web.UI.WebControls.DataGrid** control.

Use the **System.Web.UI.WebControls.DataList.HeaderTemplate** property to control the contents of the heading section. The appearance of the header section is controlled by the **System.Web.UI.WebControls.DataList.HeaderStyle** property.

HeaderText

IsTrackingViewState

ItemStyle

ItemTemplate

ToString

Description

Gets or sets the template for the items in this column of the **System.Web.UI.WebControls.DataGrid** control.

Use the **System.Web.UI.WebControls.TemplateColumn.ItemTemplate** property to control the contents of the items in the **System.Web.UI.WebControls.DataList** control.

Owner

SortExpression

ViewState

Visible

InitializeCell

[C#] public override void InitializeCell(TableCell cell, int columnIndex, ListItemType itemType);

```
[C++] public: void InitializeCell(TableCell* cell, int columnIndex, ListItemType itemType);
[VB] Overrides Public Sub InitializeCell(ByVal cell As TableCell, ByVal columnIndex As Integer, ByVal itemType As ListItemType)
[JScript] public override function InitializeCell(cell : TableCell, columnIndex : int, itemType : ListItemType);
```

Description

TextAlign enumeration (System.Web.UI.WebControls)

TrackViewState

Description

Specifies whether the text associated with a checkbox or radio button control appears to the left or to the right of the control.

The **System.Web.UI.WebControls.TextAlign** enumeration represents the different text alignment options for checkbox and radio button controls.

TrackViewState

```
[C#] public const TextAlign Left;
[C++] public: const TextAlign Left;
[VB] Public Const Left As TextAlign
[JScript] public var Left : TextAlign;
```

Description

Text associated with a checkbox or radio button control appears to the left of the control.

TrackViewState

[C#] public const TextAlign Right;

[C++] public: const TextAlign Right;

[VB] Public Const Right As TextAlign

[JScript] public var Right : TextAlign;

Description

Text associated with a checkbox or radio button control appears to the right of the control.

TextBox class (System.Web.UI.WebControls)

ToString

Description

Constructs a text box and defines its properties.

The **System.Web.UI.WebControls.TextBox** server control is an input control that lets the user enter text. By default, the **System.Web.UI.WebControls.TextBox.TextMode** of the text box is **SingleLine** , but it can be modified to be **MultiLine** or **Password** .

TextBox

Example Syntax:

ToString

```
[C#] public TextBox();
[C++] public: TextBox();
[VB] Public Sub New()
[JScript] public function TextBox();
```

Description

Initializes a new instance of the **System.Web.UI.WebControls.TextBox** class.

AccessKey

Attributes

AutoPostBack

ToString

Description

Gets or sets a value indicating whether an automatic postback to the server will occur whenever the user changes the content of the text box.

BackColor

BorderColor

BorderStyle

BorderWidth

ChildControlsCreated

ClientID

Columns

ToString

Description

Gets or sets the display width of the text box in characters.

Context

Controls

ControlStyle

ControlStyleCreated

CssClass

Enabled

EnableViewState

Events

Font

ForeColor

HasChildViewState

Height

ID

IsTrackingViewState

MaxLength

ToString

Description

Gets or sets the maximum number of characters allowed in the text box.

This property is not applicable when the **System.Web.UI.WebControls.TextBox.TextMode** property is set to **TextBoxMode.MultiLine** .

NamingContainer

Page

Parent

ReadOnly

ToString

Description

Whether the textbox is in read-only mode.

Rows

ToString

[C#] public virtual int Rows {get; set;}

[C++] public: __property virtual int get_Rows();public: __property virtual void set_Rows(int);

[VB] Overridable Public Property Rows As Integer

[JScript] public function get Rows() : int;public function set Rows(int);

Description

Gets or sets the display height of a multiline text box.

This property is only applicable when the **System.Web.UI.WebControls.TextBox.TextMode** property is set to **TextBoxMode.MultiLine** .

Site

Style

TabIndex

TagKey

ToString

Description

A protected property. Gets the HTML tag for the text box control.

TagName

TemplateSourceDirectory

Text

ToString

Description

Gets or sets the text content of the text box.

TextMode

ToString

[C#] public virtual TextBoxMode TextMode {get; set;}

[C++] public: __property virtual TextBoxMode get_TextMode();public:

__property virtual void set_TextMode(TextBoxMode);

[VB] Overridable Public Property TextMode As TextBoxMode

[JScript] public function get TextMode() : TextBoxMode;public function set TextMode(TextBoxMode);

Description

Gets or sets the behavior mode of the text box.

ToolTip

UniqueID

ViewState

ViewStateIgnoresCase

Visible

Width

Wrap

ToString

Description

Gets or sets a value indicating whether the text content wraps within the text box.

This property is only applicable when the **System.Web.UI.WebControls.TextBox.TextMode** property is set to **TextBoxMode.MultiLine** .

ToString

Description

Occurs when the content of the text box is changed upon server postback.

AddAttributesToRender

[C#] protected override void AddAttributesToRender(HtmlTextWriter writer);

[C++] protected: void AddAttributesToRender(HtmlTextWriter* writer);

[VB] Overrides Protected Sub AddAttributesToRender(ByVal writer As HtmlTextWriter)

[JScript] protected override function AddAttributesToRender(writer : HtmlTextWriter);

Description

AddParsedSubObject

[C#] protected override void AddParsedSubObject(object obj);

[C++] protected: void AddParsedSubObject(Object* obj);

[VB] Overrides Protected Sub AddParsedSubObject(ByVal obj As Object)

[JScript] protected override function AddParsedSubObject(obj : Object);

Description

Overridden to only allow literal controls to be added as Text property.

OnPreRender

[C#] protected override void OnPreRender(EventArgs e);

[C++] protected: void OnPreRender(EventArgs* e);

[VB] Overrides Protected Sub OnPreRender(ByVal e As EventArgs)

[JScript] protected override function OnPreRender(e : EventArgs);

Description

OnTextChanged

[C#] protected virtual void OnTextChanged(EventArgs e);

[C++] protected: virtual void OnTextChanged(EventArgs* e);

[VB] Overridable Protected Sub OnTextChanged(ByVal e As EventArgs)

[JScript] protected function OnTextChanged(e : EventArgs);

Description

Raises the **TextChanged** event.

Render

[C#] protected override void Render(HtmlTextWriter writer);

[C++] protected: void Render(HtmlTextWriter* writer);

[VB] Overrides Protected Sub Render(ByVal writer As HtmlTextWriter)

[JScript] protected override function Render(writer : HtmlTextWriter);

Description

IPostBackDataHandler.LoadPostData

```
[C#] bool IPostBackDataHandler.LoadPostData(string postDataKey,
NameValueCollection postCollection);
[C++] bool IPostBackDataHandler::LoadPostData(String* postDataKey,
NameValueCollection* postCollection);
[VB] Function LoadPostData(ByVal postDataKey As String, ByVal
postCollection As NameValueCollection) As Boolean Implements
IPostBackDataHandler.LoadPostData
[JScript] function IPostBackDataHandler.LoadPostData(postDataKey : String,
postCollection : NameValueCollection) : Boolean;
```

IPostBackDataHandler.RaisePostDataChangedEvent

```
[C#] void IPostBackDataHandler.RaisePostDataChangedEvent();
[C++] void IPostBackDataHandler::RaisePostDataChangedEvent();
[VB] Sub RaisePostDataChangedEvent() Implements
IPostBackDataHandler.RaisePostDataChangedEvent
[JScript] function IPostBackDataHandler.RaisePostDataChangedEvent();
```

TextBoxControlBuilder class (System.Web.UI.WebControls)

TrackViewState

Description

Interacts with the parser to build a **System.Web.UI.WebControls.TextBox** control.

To create a custom control builder for a **System.Web.UI.WebControls.TextBox** derived control, you need to inherit from this class.

TextBoxControlBuilder

Example Syntax:

TrackViewState

[C#] public TextBoxControlBuilder();

[C++] public: TextBoxControlBuilder();

[VB] Public Sub New()

[JScript] public function TextBoxControlBuilder();

ControlType

FChildrenAsProperties

FIsNonParserAccessor

HasAspCode

ID

InDesigner

NamingContainerType

Parser

TagName

AllowWhitespaceLiterals

[C#] public override bool AllowWhitespaceLiterals();

[C++] public: bool AllowWhitespaceLiterals();

[VB] Overrides Public Function AllowWhitespaceLiterals() As Boolean

[JScript] public override function AllowWhitespaceLiterals() : Boolean;

Description

Specifies whether white space literals are allowed.

Return Value: **false** for all cases.

This method overrides **System.Web.UI.ControlBuilder.AllowWhitespaceLiterals** to ignore white space in the **System.Web.UI.WebControls.TextBox** control.

HtmlDecodeLiterals

[C#] public override bool HtmlDecodeLiterals();

[C++] public: bool HtmlDecodeLiterals();

[VB] Overrides Public Function HtmlDecodeLiterals() As Boolean

[JScript] public override function HtmlDecodeLiterals() : Boolean;

Description

TextBoxMode enumeration (System.Web.UI.WebControls)

ToString

Description

Specifies the behavior mode of the text box.

The **System.Web.UI.WebControls.TextBoxMode** enumeration represents the different display options for **System.Web.UI.WebControls.TextBox** controls.

ToString

```
[C#] public const TextBoxMode MultiLine;
[C++] public: const TextBoxMode MultiLine;
[VB] Public Const MultiLine As TextBoxMode
[JScript] public var MultiLine : TextBoxMode;
```

Description

Multi line entry mode.

ToString

```
[C#] public const TextBoxMode Password;
[C++] public: const TextBoxMode Password;
[VB] Public Const Password As TextBoxMode
[JScript] public var Password : TextBoxMode;
```

Description

Password entry mode.

ToString

```
[C#] public const TextBoxMode SingleLine;
[C++] public: const TextBoxMode SingleLine;
[VB] Public Const SingleLine As TextBoxMode
[JScript] public var SingleLine : TextBoxMode;
```

Description

Single-line entry mode.

TitleFormat enumeration (System.Web.UI.WebControls)

ToString

Description

Specifies the title format for the displayed month in the **System.Web.UI.WebControls.Calendar** control.

The **System.Web.UI.WebControls.TitleFormat** enumeration represents the different title formats for the **System.Web.UI.WebControls.Calendar** control.

ToString

```
[C#] public const TitleFormat Month;
[C++] public: const TitleFormat Month;
[VB] Public Const Month As TitleFormat
[JScript] public var Month : TitleFormat;
```

Description

Title displayed with only the month but not the year. For example, "January".

ToString

[C#] public const TitleFormat MonthYear;

[C++] public: const TitleFormat MonthYear;

[VB] Public Const MonthYear As TitleFormat

[JScript] public var MonthYear : TitleFormat;

Description

Title displayed with both the month and the year. For example, "January 2000".

Unit structure (System.Web.UI.WebControls)

ToString

Description

Defines the fields, properties, and methods of the **System.Web.UI.WebControls.Unit** structure.

ToString

[C#] public static readonly Unit Empty;

[C++] public: static Unit Empty;

[VB] Public Shared ReadOnly Empty As Unit

[JScript] public static var Empty : Unit;

Description

Specifies an empty unit. This field is read-only.

Unit

Example Syntax:

ToString

[C#] public Unit(double value);

[C++] public: Unit(double value);

[VB] Public Sub New(ByVal value As Double)

[JScript] public function Unit(value : double);

Description

Initializes a new instance of the **System.Web.UI.WebControls.Unit** structure with the specified double-precision floating point number as the unit value and **Pixel** as the (default) unit type. Represents the specified unit value.

Unit

Example Syntax:

ToString

[C#] public Unit(int value);

[C++] public: Unit(int value);

[VB] Public Sub New(ByVal value As Integer)

[JScript] public function Unit(value : int); Initializes a new instance of the **System.Web.UI.WebControls.Unit** structure.

Description

Initializes a new instance of the **System.Web.UI.WebControls.Unit** structure with the specified 32-bit signed integer as the unit value and **Pixel** as the (default) unit type. Represents the specified unit value.

Unit

Example Syntax:

ToString

```
[C#] public Unit(string value);
[C++] public: Unit(String* value);
[VB] Public Sub New(ByVal value As String)
[JScript] public function Unit(value : String);
```

Description

Initializes a new instance of the **System.Web.UI.WebControls.Unit** structure with the specified text string that contains the unit value and unit type. If the unit type is not specified, the default is **Pixel** . The specified text string that contains the unit value and unit type.

Unit

Example Syntax:

ToString

```
[C#] public Unit(double value, UnitType type);
[C++] public: Unit(double value, UnitType type);
[VB] Public Sub New(ByVal value As Double, ByVal type As UnitType)
[JScript] public function Unit(value : double, type : UnitType);
```

Description

Initializes a new instance of the **System.Web.UI.WebControls.Unit** structure with the specified double-precision floating point number as the unit value and the specified **System.Web.UI.WebControls.UnitType** as the unit type. Represents the specified unit value. Represents the specified unit type.

Unit

Example Syntax:

ToString

```
[C#] public Unit(string value, CultureInfo culture);
[C++] public: Unit(String* value, CultureInfo* culture);
[VB] Public Sub New(ByVal value As String, ByVal culture As CultureInfo)
[JScript] public function Unit(value : String, culture : CultureInfo);
```

Description

IsEmpty

ToString

```
[C#] public bool IsEmpty {get;}
[C++] public: __property bool get_IsEmpty();
[VB] Public ReadOnly Property IsEmpty As Boolean
[JScript] public function get IsEmpty() : Boolean;
```

Description

Gets a value indicating whether the **System.Web.UI.WebControls.Unit** is empty.

Type

ToString

```
[C#] public UnitType Type {get;}
[C++] public: __property UnitType get_Type();
[VB] Public ReadOnly Property Type As UnitType
[JScript] public function get Type() : UnitType;
```

Description

Gets or sets the type of the **System.Web.UI.WebControls.Unit** .

Value

ToString

```
[C#] public double Value {get;}
[C++] public: __property double get_Value();
[VB] Public ReadOnly Property Value As Double
[JScript] public function get Value() : double;
```

Description

Gets the value of the **System.Web.UI.WebControls.Unit** .

Equals

[C#] public override bool Equals(object obj);

[C++] public: bool Equals(Object* obj);

[VB] Overrides Public Function Equals(ByVal obj As Object) As Boolean

[JScript] public override function Equals(obj : Object) : Boolean;

Description

Compares this **System.Web.UI.WebControls.Unit** with the specified object.

Return Value: **true** if this **System.Web.UI.WebControls.Unit** has the same value and type as the specified object; otherwise, **false** . The specified object for comparison.

GetHashCode

[C#] public override int GetHashCode();

[C++] public: int GetHashCode();

[VB] Overrides Public Function GetHashCode() As Integer

[JScript] public override function GetHashCode() : int;

Description

op_Equality

[C#] public static bool operator ==(Unit left, Unit right);

[C++] public: static bool op_Equality(Unit left, Unit right);

[VB] returnValue = Unit.op_Equality(left, right)

[JScript] returnValue = left == right;

Description

Compares two units to find out if they have the same value and type.

Return Value: **true** if both units have the same value and type; otherwise, **false** .

One of the two units being compared. The other of the two units being compared.

op_Implicit

[C#] public static implicit operator Unit(int n);

[C++] public: static Unit op_Implicit(int n);

[VB] returnValue = Unit.op_Implicit(n)

[JScript] returnValue = n;

Description

Implicitly creates a **System.Web.UI.WebControls.Unit** of type **Pixel** from the specified 32-bit unsigned integer. The specified 32-bit unsigned integer for creating a Unit.

op_Inequality

[C#] public static bool operator !=(Unit left, Unit right);

[C++] public: static bool op_Inequality(Unit left, Unit right);

[VB] returnValue = Unit.op_Inequality(left, right)

[JScript] returnValue = left != right;

Description

Compares two units to find out if they have different values and/or types. *Return Value:* **true** if both units have different values or different types; otherwise, **false** . One of the two units being compared. The other of the two units being compared.

Parse

```
[C#] public static Unit Parse(string s);
[C++] public: static Unit Parse(String* s);
[VB] Public Shared Function Parse(ByVal s As String) As Unit
[JScript] public static function Parse(s : String) : Unit;
```

Description

Parse

```
[C#] public static Unit Parse(string s, CultureInfo culture);
[C++] public: static Unit Parse(String* s, CultureInfo* culture);
[VB] Public Shared Function Parse(ByVal s As String, ByVal culture As
CultureInfo) As Unit
[JScript] public static function Parse(s : String, culture : CultureInfo) : Unit;
```

Description

Percentage

[C#] public static Unit Percentage(double n);

[C++] public: static Unit Percentage(double n);

[VB] Public Shared Function Percentage(ByVal n As Double) As Unit

[JScript] public static function Percentage(n : double) : Unit;

Description

Creates a **System.Web.UI.WebControls.Unit** of type **Percentage** from the specified 32-bit signed integer.

Return Value: A **System.Web.UI.WebControls.Unit** that represents the unit created. The specified double precision floating point number for creating a unit.

Pixel

[C#] public static Unit Pixel(int n);

[C++] public: static Unit Pixel(int n);

[VB] Public Shared Function Pixel(ByVal n As Integer) As Unit

[JScript] public static function Pixel(n : int) : Unit;

Description

Creates a **System.Web.UI.WebControls.Unit** of type **Pixel** from the specified 32-bit signed integer.

Return Value: A **System.Web.UI.WebControls.Unit** that represents the unit created. The specified 32-bit signed integer for creating a unit.

Point

```
[C#] public static Unit Point(int n);
[C++] public: static Unit Point(int n);
[VB] Public Shared Function Point(ByVal n As Integer) As Unit
[JScript] public static function Point(n : int) : Unit;
```

Description

Creates a **System.Web.UI.WebControls.Unit** of type **Point** from the specified 32-bit signed integer.

Return Value: A **System.Web.UI.WebControls.Unit** that represents the unit created. The specified 32-bit signed integer for creating a unit.

ToString

```
[C#] public override string ToString();
[C++] public: String* ToString();
[VB] Overrides Public Function ToString() As String
[JScript] public override function ToString() : String;
```

Description

Converts a **System.Web.UI.WebControls.Unit** to a **System.String** .

Return Value: A **System.String** represents this **System.Web.UI.WebControls.Unit** .

ToString

```
[C#] public string ToString(CultureInfo culture);
```

[C++] public: String* ToString(CultureInfo* culture);

[VB] Public Function ToString(ByVal culture As CultureInfo) As String

[JScript] public function ToString(culture : CultureInfo) : String;

Description

UnitConverter class (System.Web.UI.WebControls)

ToString

Description

Specifies an interface to be overridden to provide unit conversion services. The base unit converter class.

UnitConverter

Example Syntax:

ToString

[C#] public UnitConverter();

[C++] public: UnitConverter();

[VB] Public Sub New()

[JScript] public function UnitConverter();

CanConvertFrom

[C#] public override bool CanConvertFrom(ITypeDescriptorContext context, Type sourceType);

[C++] public: bool CanConvertFrom(ITypeDescriptorContext* context, Type* sourceType);

[VB] Overrides Public Function CanConvertFrom(ByVal context As ITypeDescriptorContext, ByVal sourceType As Type) As Boolean

[JScript] public override function CanConvertFrom(context : ITypeDescriptorContext, sourceType : Type) : Boolean;

Description

Returns a value indicating whether the unit converter can convert from the specified source type.

Return Value: **true** if the source type can be converted from; otherwise, **false** . An **System.ComponentModel.ITypeDescriptorContext** that specifies the context of the object to convert. The type of the source.

ConvertFrom

[C#] public override object ConvertFrom(ITypeDescriptorContext context, CultureInfo culture, object value);

[C++] public: Object* ConvertFrom(ITypeDescriptorContext* context, CultureInfo* culture, Object* value);

[VB] Overrides Public Function ConvertFrom(ByVal context As ITypeDescriptorContext, ByVal culture As CultureInfo, ByVal value As Object) As Object

[JScript] public override function ConvertFrom(context : ITypeDescriptorContext, culture : CultureInfo, value : Object) : Object;

Description

Performs type conversion from the specified context, object and argument list.

Return Value: The object resulting from conversion. An **System.ComponentModel.ITypeDescriptorContext** that indicates the context of the object to convert. A **System.Globalization.CultureInfo** object that represents information about a culture such as language, calendar system, and so on. This parameter is not used in this method. It is reserved for future versions of this method. You can optionally pass in **null** for this parameter. The object to convert.

ConvertTo

[C#] public override object ConvertTo(ITypeDescriptorContext context, CultureInfo culture, object value, Type destinationType);

[C++] public: Object* ConvertTo(ITypeDescriptorContext* context, CultureInfo* culture, Object* value, Type* destinationType);

[VB] Overrides Public Function ConvertTo(ByVal context As ITypeDescriptorContext, ByVal culture As CultureInfo, ByVal value As Object, ByVal destinationType As Type) As Object

[JScript] public override function ConvertTo(context : ITypeDescriptorContext, culture : CultureInfo, value : Object, destinationType : Type) : Object;

Description

Performs type conversion to the specified destination type given the specified context, object and argument list.

Return Value: The object resulting from conversion. An **System.ComponentModel.ITypeDescriptorContext** that indicates the context of the object to convert. A **System.Globalization.CultureInfo** object that represents information about a culture such as language, calendar system, and so on. This parameter is not used in this method. It is reserved for future versions of this method. You can optionally pass in **null** for this parameter. The object to convert. The type to convert to.

UnitType enumeration (System.Web.UI.WebControls)

ToString

Description

Specifies the unit of measurement.

The **System.Web.UI.WebControls.UnitType** enumeration represents the different supported measurement units. Measurements can be represented in pixels, points, picas, inches, millimeters, centimeters, percentages, em, or ex.

ToString

[C#] public const UnitType Cm;

[C++] public: const UnitType Cm;

[VB] Public Const Cm As UnitType

[JScript] public var Cm : UnitType;

Description

Measurement is in centimeters.

ToString

```
[C#] public const UnitType Em;
[C++] public: const UnitType Em;
[VB] Public Const Em As UnitType
[JScript] public var Em : UnitType;
```

Description

Measurement is relative to the height of the parent element's font.

ToString

```
[C#] public const UnitType Ex;
[C++] public: const UnitType Ex;
[VB] Public Const Ex As UnitType
[JScript] public var Ex : UnitType;
```

Description

Measurement is relative to the height of the lowercase letter x of the parent element's font.

ToString

```
[C#] public const UnitType Inch;
[C++] public: const UnitType Inch;
[VB] Public Const Inch As UnitType
[JScript] public var Inch : UnitType;
```

Description

Measurement is in inches.

ToString

[C#] public const UnitType Mm;

[C++] public: const UnitType Mm;

[VB] Public Const Mm As UnitType

[JScript] public var Mm : UnitType;

Description

Measurement is in millimeters.

ToString

[C#] public const UnitType Percentage;

[C++] public: const UnitType Percentage;

[VB] Public Const Percentage As UnitType

[JScript] public var Percentage : UnitType;

Description

Measurement is a percentage relative to the parent element.

ToString

[C#] public const UnitType Pica;

[C++] public: const UnitType Pica;

[VB] Public Const Pica As UnitType

[JScript] public var Pica : UnitType;

Description

Measurement is in picas. A pica represents 12 points.

ToString

[C#] public const UnitType Pixel;

[C++] public: const UnitType Pixel;

[VB] Public Const Pixel As UnitType

[JScript] public var Pixel : UnitType;

Description

Measurement is in pixels.

ToString

[C#] public const UnitType Point;

[C++] public: const UnitType Point;

[VB] Public Const Point As UnitType

[JScript] public var Point : UnitType;

Description

Measurement is in points. A point represents 1/72 of an inch.

ValidatedControlConverter class (System.Web.UI.WebControls)

ToString

Description

Shows a list of validatable controls in the Properties window.

GetStandardValues

```
[C#] public override StandardValuesCollection GetStandardValues(ITypeDescriptorContext context);
[C++] public: StandardValuesCollection* GetStandardValues(ITypeDescriptorContext* context);
[VB] Overrides Public Function GetStandardValues(ByVal context As ITypeDescriptorContext) As StandardValuesCollection
[JScript] public override function GetStandardValues(context : ITypeDescriptorContext) : StandardValuesCollection;
```

Description

Returns a collection of standard values retrieved from the context specified by the specified type descriptor.

Return Value: A StandardValuesCollection that represents the standard values collected from the specified context. A type descriptor that specifies the location of the context to convert from.

GetStandardValuesExclusive

```
[C#] public override bool GetStandardValuesExclusive(ITypeDescriptorContext context);
```

[C++] public: bool GetStandardValuesExclusive(ITypeDescriptorContext* context);

[VB] Overrides Public Function GetStandardValuesExclusive(ByVal context As ITypeDescriptorContext) As Boolean

[JScript] public override function GetStandardValuesExclusive(context : ITypeDescriptorContext) : Boolean;

Description

Gets whether or not the context specified contains exclusive standard values.

Return Value: **true** if the specified context contains exclusive standard values, otherwise **false** . A type descriptor that indicates the context to convert from.

GetStandardValuesSupported

[C#] public override bool GetStandardValuesSupported(ITypeDescriptorContext context);

[C++] public: bool GetStandardValuesSupported(ITypeDescriptorContext* context);

[VB] Overrides Public Function GetStandardValuesSupported(ByVal context As ITypeDescriptorContext) As Boolean

[JScript] public override function GetStandardValuesSupported(context : ITypeDescriptorContext) : Boolean;

Description

Gets whether or not the specified context contains supported standard values.

Return Value: **true** if the specified context conatins supported standard values, otherwise **false** . A type descriptor that indicates the context to convert from.

ValidationCompareOperator enumeration (System.Web.UI.WebControls)

ToString

Description

Specifies the validation comparison operators used by the **System.Web.UI.WebControls.CompareValidator** control.

The **System.Web.UI.WebControls.ValidationCompareOperator** enumeration represents the comparison operations that can be performed by the **System.Web.UI.WebControls.CompareValidator** control.

ToString

[C#] public const ValidationCompareOperator DataTypeCheck;

[C++] public: const ValidationCompareOperator DataTypeCheck;

[VB] Public Const DataTypeCheck As ValidationCompareOperator

[JScript] public var DataTypeCheck : ValidationCompareOperator;

Description

A comparison for data type only.

ToString

```
[C#] public const ValidationCompareOperator Equal;
[C++] public: const ValidationCompareOperator Equal;
[VB] Public Const Equal As ValidationCompareOperator
[JScript] public var Equal : ValidationCompareOperator;
```

Description

A comparison for equality.

ToString

```
[C#] public const ValidationCompareOperator GreaterThan;
[C++] public: const ValidationCompareOperator GreaterThan;
[VB] Public Const GreaterThan As ValidationCompareOperator
[JScript] public var GreaterThan : ValidationCompareOperator;
```

Description

A comparison for greater than.

ToString

```
[C#] public const ValidationCompareOperator GreaterThanEqual;
[C++] public: const ValidationCompareOperator GreaterThanEqual;
[VB] Public Const GreaterThanEqual As ValidationCompareOperator
[JScript] public var GreaterThanEqual : ValidationCompareOperator;
```

Description

A comparison for greater than or equal to.

ToString

[C#] public const ValidationCompareOperator LessThan;

[C++] public: const ValidationCompareOperator LessThan;

[VB] Public Const LessThan As ValidationCompareOperator

[JScript] public var LessThan : ValidationCompareOperator;

Description

A comparison for less than.

ToString

[C#] public const ValidationCompareOperator LessThanEqual;

[C++] public: const ValidationCompareOperator LessThanEqual;

[VB] Public Const LessThanEqual As ValidationCompareOperator

[JScript] public var LessThanEqual : ValidationCompareOperator;

Description

A comparison for less than or equal to.

ToString

[C#] public const ValidationCompareOperator NotEqual;

[C++] public: const ValidationCompareOperator NotEqual;

[VB] Public Const NotEqual As ValidationCompareOperator

[JScript] public var NotEqual : ValidationCompareOperator;

Description

A comparison for inequality.

ValidationDataType enumeration (System.Web.UI.WebControls)

ToString

Description

Specifies the validation data types used by the **System.Web.UI.WebControls.CompareValidator** and **System.Web.UI.WebControls.RangeValidator** controls.

The **System.Web.UI.WebControls.ValidationDataType** enumeration represents the different data types that the **System.Web.UI.WebControls.CompareValidator** and **System.Web.UI.WebControls.RangeValidator** controls can validate.

ToString

```
[C#] public const ValidationDataType Currency;
[C++] public: const ValidationDataType Currency;
[VB] Public Const Currency As ValidationDataType
[JScript] public var Currency : ValidationDataType;
```

Description

A currency data type.

ToString

```
[C#] public const ValidationDataType Date;
[C++] public: const ValidationDataType Date;
[VB] Public Const Date As ValidationDataType
[JScript] public var Date : ValidationDataType;
```

Description

A date data type.

ToString

```
[C#] public const ValidationDataType Double;
[C++] public: const ValidationDataType Double;
[VB] Public Const Double As ValidationDataType
[JScript] public var Double : ValidationDataType;
```

Description

A double data type.

ToString

```
[C#] public const ValidationDataType Integer;
[C++] public: const ValidationDataType Integer;
[VB] Public Const Integer As ValidationDataType
[JScript] public var Integer : ValidationDataType;
```

Description

An integer data type.

ToString

[C#] public const ValidationDataType String;

[C++] public: const ValidationDataType String;

[VB] Public Const String As ValidationDataType

[JScript] public var String : ValidationDataType;

Description

A string data type.

ValidationSummary class (System.Web.UI.WebControls)

ToString

Description

Displays a summary of all validation errors inline on a Web page, in a message box, or both.

The **System.Web.UI.WebControls.ValidationSummary** class is used to summarize the error messages from all validators on a Web page, in a single location. The summary can be displayed as a list, as a bulleted list, or as a single paragraph based on the **System.Web.UI.WebControls.ValidationSummary.DisplayMode** property.

ValidationSummary

Example Syntax:

ToString

[C#] public ValidationSummary();

[C++] public: ValidationSummary();

[VB] Public Sub New()

[JScript] public function ValidationSummary();

Description

Initializes a new instance of the **System.Web.UI.WebControls.ValidationSummary** class.

The following table shows the initial property value for an instance of **System.Web.UI.WebControls.ValidationSummary** .

AccessKey

Attributes

BackColor

BorderColor

BorderStyle

BorderWidth

ChildControlsCreated

ClientID

Context

Controls

ControlStyle

ControlStyleCreated

CssClass

DisplayMode

ToString

Description

Gets or sets the display mode of the validation summary.

Use this property to specify the display format of a **System.Web.UI.WebControls.ValidationSummary** control. The summary may be displayed as a list, as a bulleted list, or as a single paragraph.

EnableClientScript

ToString

[C#] public bool EnableClientScript {get; set;}

[C++] public: __property bool get_EnableClientScript();public: __property void set_EnableClientScript(bool);

[VB] Public Property EnableClientScript As Boolean

[JScript] public function get EnableClientScript() : Boolean;public function set EnableClientScript(Boolean);

Description

Gets or sets a value indicating whether client-side validation is attempted on the browser.

Use this property to enable or disable client-side validation on the browser. When set to **true** , client-side validation is performed on the browser if the browser supports that feature. When set to **false** , no client-side validation is attempted, the **System.Web.UI.WebControls.ValidationSummary** control only updates itself on round-trips to the server, and the **System.Web.UI.WebControls.ValidationSummary.ShowMessageBox** property has no effect.

Enabled

EnableViewState

Events

Font

ForeColor

ToString

Description

Gets or sets the fore color of the control.

Use this property to specify the color that error messages from validation controls are displayed.

HasChildViewState

HeaderText

ToString

Description

Gets or sets the header text displayed at the top of the summary.

Use this property to display a title for the **System.Web.UI.WebControls.ValidationSummary** control.

Height

ID

IsTrackingViewState

NamingContainer

Page

Parent

ShowMessageBox

ToString

Description

Gets or sets a value indicating whether the validation summary is displayed in a message box.

This property can be used in addition to the **System.Web.UI.WebControls.ValidationSummary.ShowSummary** property to control where the validation summary is displayed. If this property and **System.Web.UI.WebControls.ValidationSummary.EnableClientScript** are both set to **true,** the validation summary is displayed in a message box. If **System.Web.UI.WebControls.ValidationSummary.EnableClientScript** is set to **false** , this property has no effect.

ShowSummary

ToString

[C#] public bool ShowSummary {get; set;}

[C++] public: __property bool get_ShowSummary();public: __property void set_ShowSummary(bool);

[VB] Public Property ShowSummary As Boolean

[JScript] public function get ShowSummary() : Boolean;public function set ShowSummary(Boolean);

Description

Gets or sets a value indicating whether the validation summary is displayed inline.

This property can be used in addition to the **System.Web.UI.WebControls.ValidationSummary.ShowMessageBox** property to control where the validation summary is displayed. If this property is set to **true** , the validation summary is displayed on the Web page.

Site

Style

TabIndex

TagKey

TagName

TemplateSourceDirectory

ToolTip

UniqueID

ViewState

ViewStateIgnoresCase

Visible

Width

AddAttributesToRender

[C#] protected override void AddAttributesToRender(HtmlTextWriter writer);

[C++] protected: void AddAttributesToRender(HtmlTextWriter* writer);

[VB] Overrides Protected Sub AddAttributesToRender(ByVal writer As HtmlTextWriter)

[JScript] protected override function AddAttributesToRender(writer : HtmlTextWriter);

Description

AddAttributesToRender method.

OnPreRender

[C#] protected override void OnPreRender(EventArgs e);

[C++] protected: void OnPreRender(EventArgs* e);

[VB] Overrides Protected Sub OnPreRender(ByVal e As EventArgs)

[JScript] protected override function OnPreRender(e : EventArgs);

Description

PreRender method.

Render

[C#] protected override void Render(HtmlTextWriter writer);

[C++] protected: void Render(HtmlTextWriter* writer);

[VB] Overrides Protected Sub Render(ByVal writer As HtmlTextWriter)

[JScript] protected override function Render(writer : HtmlTextWriter);

Description

Render method.

ValidationSummaryDisplayMode enumeration (System.Web.UI.WebControls)

TrackViewState

Description

Specifies the validation summary display mode used by the **System.Web.UI.WebControls.ValidationSummary** control.

The **System.Web.UI.WebControls.ValidationSummaryDisplayMode** enumeration represents the different display formats of a **System.Web.UI.WebControls.ValidationSummary** control.

TrackViewState

[C#] public const ValidationSummaryDisplayMode BulletList;

[C++] public: const ValidationSummaryDisplayMode BulletList;

[VB] Public Const BulletList As ValidationSummaryDisplayMode

[JScript] public var BulletList : ValidationSummaryDisplayMode;

Description

Validation summary displayed in a bulleted list.

TrackViewState

[C#] public const ValidationSummaryDisplayMode List;

[C++] public: const ValidationSummaryDisplayMode List;

[VB] Public Const List As ValidationSummaryDisplayMode

[JScript] public var List : ValidationSummaryDisplayMode;

Description

Validation summary displayed in a list.

TrackViewState

[C#] public const ValidationSummaryDisplayMode SingleParagraph;

[C++] public: const ValidationSummaryDisplayMode SingleParagraph;

[VB] Public Const SingleParagraph As ValidationSummaryDisplayMode

[JScript] public var SingleParagraph : ValidationSummaryDisplayMode;

Description

Validation summary displayed in a single paragraph.

ValidatorDisplay enumeration (System.Web.UI.WebControls)

ToString

Description

Specifies the display behavior of error messages in validation controls.

The **ValidatorDisplaySystem.Web.UI.WebControls** enumeration represents the different display behaviors of error messages in validation controls.

ToString

```
[C#] public const ValidatorDisplay Dynamic;
[C++] public: const ValidatorDisplay Dynamic;
[VB] Public Const Dynamic As ValidatorDisplay
[JScript] public var Dynamic : ValidatorDisplay;
```

Description

Validator content dynamically added to the page when validation fails.

ToString

```
[C#] public const ValidatorDisplay None;
[C++] public: const ValidatorDisplay None;
[VB] Public Const None As ValidatorDisplay
[JScript] public var None : ValidatorDisplay;
```

Description

Validator content never displayed inline.

ToString

```
[C#] public const ValidatorDisplay Static;
[C++] public: const ValidatorDisplay Static;
[VB] Public Const Static As ValidatorDisplay
[JScript] public var Static : ValidatorDisplay;
```

Description

Validator content physically part of the page layout.

VerticalAlign enumeration (System.Web.UI.WebControls)

ToString

Description

Specifies the vertical alignment of an object or text in a control.

The **System.Web.UI.WebControls.VerticalAlign** enumeration represents the different vertical alignment options for an object or text in a control.

ToString

```
[C#] public const VerticalAlign Bottom;
[C++] public: const VerticalAlign Bottom;
[VB] Public Const Bottom As VerticalAlign
[JScript] public var Bottom : VerticalAlign;
```

Description

Text or object is aligned with the bottom of the enclosing control.

ToString

```
[C#] public const VerticalAlign Middle;
[C++] public: const VerticalAlign Middle;
[VB] Public Const Middle As VerticalAlign
```

[JScript] public var Middle : VerticalAlign;

Description

Text or object is aligned with the center of the enclosing control.

ToString

[C#] public const VerticalAlign NotSet;

[C++] public: const VerticalAlign NotSet;

[VB] Public Const NotSet As VerticalAlign

[JScript] public var NotSet : VerticalAlign;

Description

Vertical alignment is not set.

ToString

[C#] public const VerticalAlign Top;

[C++] public: const VerticalAlign Top;

[VB] Public Const Top As VerticalAlign

[JScript] public var Top : VerticalAlign;

Description

Text or object is aligned with the top of the enclosing control.

WebColorConverter class (System.Web.UI.WebControls)

ToString

Description

WebColorConverter

Example Syntax:

ToString

[C#] public WebColorConverter();

[C++] public: WebColorConverter();

[VB] Public Sub New()

[JScript] public function WebColorConverter();

ConvertFrom

[C#] public override object ConvertFrom(ITypeDescriptorContext context, CultureInfo culture, object value);

[C++] public: Object* ConvertFrom(ITypeDescriptorContext* context, CultureInfo* culture, Object* value);

[VB] Overrides Public Function ConvertFrom(ByVal context As ITypeDescriptorContext, ByVal culture As CultureInfo, ByVal value As Object) As Object

[JScript] public override function ConvertFrom(context : ITypeDescriptorContext, culture : CultureInfo, value : Object) : Object;

Description

ConvertTo

[C#] public override object ConvertTo(ITypeDescriptorContext context, CultureInfo culture, object value, Type destinationType);

[C++] public: Object* ConvertTo(ITypeDescriptorContext* context, CultureInfo* culture, Object* value, Type* destinationType);

[VB] Overrides Public Function ConvertTo(ByVal context As ITypeDescriptorContext, ByVal culture As CultureInfo, ByVal value As Object, ByVal destinationType As Type) As Object

[JScript] public override function ConvertTo(context : ITypeDescriptorContext, culture : CultureInfo, value : Object, destinationType : Type) : Object;

Description

WebControl class (System.Web.UI.WebControls)

ToString

Description

Serves as the base class that defines the methods, properties and events common to all controls in the **System.Web.UI.WebControls** namespace.

Certain properties of the base control may not render on downlevel browsers for some or all controls. For example, the **System.Web.UI.WebControls.WebControl.AccessKey** property will not render on downlevel browsers for any controls. See specific property for more details.

WebControl

Example Syntax:

ToString

[C#] protected WebControl();

[C++] protected: WebControl();

[VB] Protected Sub New()

[JScript] protected function WebControl(); Initializes a new instance of the **System.Web.UI.WebControls.WebControl** class.

Description

Initializes a new instance of the **System.Web.UI.WebControls.WebControl** class with a **Span** HTML tag.

WebControl

Example Syntax:

ToString

[C#] public WebControl(HtmlTextWriterTag tag);

[C++] public: WebControl(HtmlTextWriterTag tag);

[VB] Public Sub New(ByVal tag As HtmlTextWriterTag)

[JScript] public function WebControl(tag : HtmlTextWriterTag);

Description

Initializes a new instance of the **System.Web.UI.WebControls.WebControl** class using the specified HTML tag. One of the **System.Web.UI.HtmlTextWriteTag** values.

WebControl

Example Syntax:

ToString

[C#] protected WebControl(string tag);

[C++] protected: WebControl(String* tag);

[VB] Protected Sub New(ByVal tag As String)

[JScript] protected function WebControl(tag : String);

Description

Initializes a new instance of the **System.Web.UI.WebControls.WebControl** class with the specified HTML tag. An HTML tag.

AccessKey

ToString

[C#] public virtual string AccessKey {get; set;}

[C++] public: __property virtual String* get_AccessKey();public: __property virtual void set_AccessKey(String*);

[VB] Overridable Public Property AccessKey As String

[JScript] public function get AccessKey() : String;public function set AccessKey(String);

Description

Gets or sets the keyboard shortcut key (AccessKey) for setting focus to the Web control.

This property will not render on downlevel browsers for any controls. It is not HTML 4.0 and will only work in IE 4 or higher.

Attributes

ToString

[C#] public AttributeCollection Attributes {get;}

[C++] public: __property AttributeCollection* get_Attributes();

[VB] Public ReadOnly Property Attributes As AttributeCollection

[JScript] public function get Attributes() : AttributeCollection;

Description

Gets the collection of arbitrary attributes (for rendering only) that do not correspond to properties on the control.

This property will render on downlevel browsers for all controls.

BackColor

ToString

[C#] public virtual Color BackColor {get; set;}

[C++] public: __property virtual Color get_BackColor();public: __property virtual void set_BackColor(Color);

[VB] Overridable Public Property BackColor As Color

[JScript] public function get BackColor() : Color;public function set BackColor(Color);

Description

Gets or sets the background color of the Web control.

This property will render on downlevel browsers for some controls only. For example, **System.Web.UI.WebControls.Table** , **System.Web.UI.WebControls.Panel** , **System.Web.UI.WebControls.DataGrid** , **System.Web.UI.WebControls.Calendar** , and **System.Web.UI.WebControls.ValidationSummary** . It will also work for **System.Web.UI.WebControls.CheckBoxList** , **System.Web.UI.WebControls.RadioButtonList** and **System.Web.UI.WebControls.DataList** if their **RepeatLayout** property is **Table** and not **Flow** .

BorderColor

ToString

[C#] public virtual Color BorderColor {get; set;}

[C++] public: __property virtual Color get_BorderColor();public: __property virtual void set_BorderColor(Color);

[VB] Overridable Public Property BorderColor As Color

[JScript] public function get BorderColor() : Color;public function set BorderColor(Color);

Description

Gets or sets the border color of the Web control.

The property will render downlevel only for the same table-based controls like the **System.Web.UI.WebControls.WebControl.BackColor** property. However, it is output as the "bordercolor" attribute which is not part of the HTML

3.2 standard. It works for Navigaor 4 and higher, and IE 3 and higher, but not most other browsers.

BorderStyle

ToString

```
[C#] public virtual BorderStyle BorderStyle {get; set;}
[C++] public: __property virtual BorderStyle get_BorderStyle();public: __property virtual void set_BorderStyle(BorderStyle);
[VB] Overridable Public Property BorderStyle As BorderStyle
[JScript] public function get BorderStyle() : BorderStyle;public function set BorderStyle(BorderStyle);
```

Description

Gets or sets the border style of the Web control.

This property will not render on downlevel browsers for any controls.

BorderWidth

ToString

```
[C#] public virtual Unit BorderWidth {get; set;}
[C++] public: __property virtual Unit get_BorderWidth();public: __property virtual void set_BorderWidth(Unit);
[VB] Overridable Public Property BorderWidth As Unit
[JScript] public function get BorderWidth() : Unit;public function set BorderWidth(Unit);
```

Description

Gets or sets the border width of the Web control.

Use the **System.Web.UI.WebControls.WebControl.BorderWidth** property to specify a border width for a control.

ChildControlsCreated

ClientID

Context

Controls

ControlStyle

ToString

Description

Gets the style of the Web control. This property is primarily used by control developers.

ControlStyleCreated

ToString

[C#] public bool ControlStyleCreated {get;}

[C++] public: __property bool get_ControlStyleCreated();

[VB] Public ReadOnly Property ControlStyleCreated As Boolean

[JScript] public function get ControlStyleCreated() : Boolean;

Description

CssClass

ToString

```
[C#] public virtual string CssClass {get; set;}
[C++] public: __property virtual String* get_CssClass();public: __property virtual void set_CssClass(String*);
[VB] Overridable Public Property CssClass As String
[JScript] public function get CssClass() : String;public function set CssClass(String);
```

Description

Gets or sets the CSS class rendered by the Web control.

This property will render on downlevel browsers for all controls.

Enabled

ToString

```
[C#] public virtual bool Enabled {get; set;}
[C++] public: __property virtual bool get_Enabled();public: __property virtual void set_Enabled(bool);
[VB] Overridable Public Property Enabled As Boolean
[JScript] public function get Enabled() : Boolean;public function set Enabled(Boolean);
```

Description

Gets or sets a value indicating whether the Web control is enabled.

This property will render on downlevel browsers for some controls only.

EnableViewState

Events

Font

ToString

Description

Gets font information of the Web control.

This property includes subproperties that can be accessed declaratively in the form of "Font-Bold" or programmatically in the form of "Font.Bold".

ForeColor

ToString

[C#] public virtual Color ForeColor {get; set;}

[C++] public: __property virtual Color get_ForeColor();public: __property virtual void set_ForeColor(Color);

[VB] Overridable Public Property ForeColor As Color

[JScript] public function get ForeColor() : Color;public function set ForeColor(Color);

Description

Gets or sets the foreground color (typically the color of the text) of the Web control.

This property will render on downlevel browsers for almost all controls, except the **System.Web.UI.WebControls.Image** , **System.Web.UI.WebControls.AdRotator** , **System.Web.UI.WebControls.HyperLink** and **System.Web.UI.WebControls.LinkButton** controls. In addition, it will be rendered as tags on downlevel browsers.

HasChildViewState

Height

ToString

Description

Gets or sets the height of the Web control.

This property will render on downlevel browsers for some controls only. It will not render downlevel for **System.Web.UI.WebControls.Label** , **System.Web.UI.WebControls.HyperLink** , **System.Web.UI.WebControls.LinkButton** , any validator controls, or for **System.Web.UI.WebControls.CheckBoxList** , **System.Web.UI.WebControls.RadioButtonList** and **System.Web.UI.WebControls.DataList** when their **RepeatLayout** property is **Flow** . Furthermore, only unit types of **Pixel** and **percentage** will work.

ID

IsTrackingViewState

NamingContainer

Page

Parent

Site

Style

ToString

Description

Gets a collection of text attributes that will be rendered as a style attribute on the outer tag of the Web control.

This property will render on downlevel browsers for all controls.

TabIndex

ToString

[C#] public virtual short TabIndex {get; set;}

[C++] public: __property virtual short get_TabIndex();public: __property virtual void set_TabIndex(short);

[VB] Overridable Public Property TabIndex As Short

[JScript] public function get TabIndex() : Int16;public function set TabIndex(Int16);

Description

Gets or sets the tab index of the Web control.

Use the **System.Web.UI.WebControls.WebControl.TabIndex** property to specify or determine the tab index of a control on the Web Page.

TagKey

ToString

[C#] protected virtual HtmlTextWriterTag TagKey {get;}

[C++] protected: __property virtual HtmlTextWriterTag get_TagKey();

[VB] Overridable Protected ReadOnly Property TagKey As HtmlTextWriterTag

[JScript] protected function get TagKey() : HtmlTextWriterTag;

Description

TagName

ToString

[C#] protected virtual string TagName {get;}

[C++] protected: __property virtual String* get_TagName();

[VB] Overridable Protected ReadOnly Property TagName As String

[JScript] protected function get TagName() : String;

Description

A protected property. Gets the name of the control tag. This property is primarily used by control developers.

TemplateSourceDirectory

ToolTip

ToString

Description

Gets or sets the tool tip for the Web control to be displayed when the mouse cursor is over the control.

This property will not render on downlevel browsers for any controls.

UniqueID

ViewState

ViewStateIgnoresCase

Visible

Width

ToString

Description

Gets or sets the width of the Web control.

This property will render on downlevel browsers for some controls only. It will not render downlevel for **System.Web.UI.WebControls.Label** , **System.Web.UI.WebControls.HyperLink** , **System.Web.UI.WebControls.LinkButton** , any validator controls, or for **System.Web.UI.WebControls.CheckBoxList** , **System.Web.UI.WebControls.RadioButtonList** and **System.Web.UI.WebControls.DataList** when their **RepeatLayout** property is **Flow** . Furthermore, only unit types of **Pixel** and **Percentage** will work.

AddAttributesToRender

```
[C#] protected virtual void AddAttributesToRender(HtmlTextWriter writer);
[C++] protected: virtual void AddAttributesToRender(HtmlTextWriter* writer);
```

[VB] Overridable Protected Sub AddAttributesToRender(ByVal writer As HtmlTextWriter)

[JScript] protected function AddAttributesToRender(writer : HtmlTextWriter);

Description

Adds to the specified writer those HTML attributes and styles that need to be rendered. This method is primarily used by control developers. The output stream that renders HTML content to the client.

ApplyStyle

[C#] public void ApplyStyle(Style s);

[C++] public: void ApplyStyle(Style* s);

[VB] Public Sub ApplyStyle(ByVal s As Style)

[JScript] public function ApplyStyle(s : Style);

Description

Copies any non-blank elements of the specified style to the Web control, overwriting any existing style elements of the control. This method is primarily used by control developers. The style to be copied.

CopyBaseAttributes

[C#] public void CopyBaseAttributes(WebControl controlSrc);

[C++] public: void CopyBaseAttributes(WebControl* controlSrc);

[VB] Public Sub CopyBaseAttributes(ByVal controlSrc As WebControl)

[JScript] public function CopyBaseAttributes(controlSrc : WebControl);

Description

Copies the **System.Web.UI.WebControls.WebControl.AccessKey** , **System.Web.UI.WebControls.WebControl.Enabled** , **System.Web.UI.WebControls.WebControl.ToolTip** , **System.Web.UI.WebControls.WebControl.TabIndex** , and **System.Web.UI.WebControls.WebControl.Attributes** properties onto the Web control from the specified source control. The source control with properties to be copied onto the Web control.

CreateControlStyle

[C#] protected virtual Style CreateControlStyle();

[C++] protected: virtual Style* CreateControlStyle();

[VB] Overridable Protected Function CreateControlStyle() As Style

[JScript] protected function CreateControlStyle() : Style;

Description

A protected method. Creates the style object that is used internally to implement all style-related properties. Controls may override to create an appropriately typed style.

Return Value: A **System.Web.UI.WebControls.Style** that is used to implement all style-related properties of the control.

LoadViewState

[C#] protected override void LoadViewState(object savedState);

[C++] protected: void LoadViewState(Object* savedState);

[VB] Overrides Protected Sub LoadViewState(ByVal savedState As Object)

[JScript] protected override function LoadViewState(savedState : Object);

Description

Loads previously saved state. Overridden to handle ViewState, Style, and Attributes. Previously saved state.

MergeStyle

[C#] public void MergeStyle(Style s);

[C++] public: void MergeStyle(Style* s);

[VB] Public Sub MergeStyle(ByVal s As Style)

[JScript] public function MergeStyle(s : Style);

Description

Copies any non-blank elements of the specified style to the Web control, but will not overwrite any existing style elements of the control. This method is primarily used by control developers. The style to be copied.

Render

[C#] protected override void Render(HtmlTextWriter writer);

[C++] protected: void Render(HtmlTextWriter* writer);

[VB] Overrides Protected Sub Render(ByVal writer As HtmlTextWriter)

[JScript] protected override function Render(writer : HtmlTextWriter);

Description

Renders the control into the specified writer. The output stream that renders HTML content to the client.

RenderBeginTag

```
[C#] public virtual void RenderBeginTag(HtmlTextWriter writer);
[C++] public: virtual void RenderBeginTag(HtmlTextWriter* writer);
[VB] Overridable Public Sub RenderBeginTag(ByVal writer As HtmlTextWriter)
[JScript] public function RenderBeginTag(writer : HtmlTextWriter);
```

Description

Renders the HTML begin tag of the control into the specified writer. This method is primarily used by control developers.

This is made public so other controls can render multiple controls in between the begin tag and the end tag. The output stream that renders HTML content to the client.

RenderContents

```
[C#] protected virtual void RenderContents(HtmlTextWriter writer);
[C++] protected: virtual void RenderContents(HtmlTextWriter* writer);
[VB] Overridable Protected Sub RenderContents(ByVal writer As
HtmlTextWriter)
[JScript] protected function RenderContents(writer : HtmlTextWriter);
```

Description

Renders the contents of the control into the specified writer. This method is primarily used by control developers. The output stream that renders HTML content to the client.

RenderEndTag

```
[C#] public virtual void RenderEndTag(HtmlTextWriter writer);
[C++] public: virtual void RenderEndTag(HtmlTextWriter* writer);
[VB] Overridable Public Sub RenderEndTag(ByVal writer As HtmlTextWriter)
[JScript] public function RenderEndTag(writer : HtmlTextWriter);
```

Description

Renders the HTML end tag of the control into the specified writer. This method is primarily used by control developers.

This is made public so other controls can render multiple controls in between the begin tag and the end tag. The output stream that renders HTML content to the client.

SaveViewState

```
[C#] protected override object SaveViewState();
[C++] protected: Object* SaveViewState();
[VB] Overrides Protected Function SaveViewState() As Object
[JScript] protected override function SaveViewState() : Object;
```

Description

A protected method. Saves any state that was modified after the **System.Web.UI.WebControls.Style.TrackViewState** method was invoked.

IAttributeAccessor.GetAttribute

[C#] string IAttributeAccessor.GetAttribute(string name);

[C++] String* IAttributeAccessor::GetAttribute(String* name);

[VB] Function GetAttribute(ByVal name As String) As String Implements IAttributeAccessor.GetAttribute

[JScript] function IAttributeAccessor.GetAttribute(name : String) : String;

IAttributeAccessor.SetAttribute

[C#] void IAttributeAccessor.SetAttribute(string name, string value);

[C++] void IAttributeAccessor::SetAttribute(String* name, String* value);

[VB] Sub SetAttribute(ByVal name As String, ByVal value As String) Implements IAttributeAccessor.SetAttribute

[JScript] function IAttributeAccessor.SetAttribute(name : String, value : String);

TrackViewState

[C#] protected override void TrackViewState();

[C++] protected: void TrackViewState();

[VB] Overrides Protected Sub TrackViewState()

[JScript] protected override function TrackViewState();

Description

Marks the beginning for tracking state changes on the control. Any changes made after "mark" will be tracked and saved as part of the control viewstate.

Xml class (System.Web.UI.WebControls)

TrackViewState

Description

Displays the contents of an XML document or the results of an XSL Transform.

Use the **System.Web.UI.WebControls.Xml** control to display the contents of an XML document or the results of an XSL Transform.

Xml

Example Syntax:

TrackViewState

[C#] public Xml();

[C++] public: Xml();

[VB] Public Sub New()

[JScript] public function Xml();

ChildControlsCreated

ClientID

Context

Controls

Document

TrackViewState

Description

Gets or sets the **System.Xml.XmlDocument** object to display.

DocumentContent

TrackViewState

[C#] public string DocumentContent {get; set;}

[C++] public: __property String* get_DocumentContent();public: __property void set_DocumentContent(String*);

[VB] Public Property DocumentContent As String

[JScript] public function get DocumentContent() : String;public function set DocumentContent(String);

Description

Gets or sets a string that contains the XML document to display in the **System.Web.UI.WebControls.Xml** control.

DocumentSource

TrackViewState

[C#] public string DocumentSource {get; set;}

[C++] public: __property String* get_DocumentSource();public: __property void set_DocumentSource(String*);

[VB] Public Property DocumentSource As String

[JScript] public function get DocumentSource() : String;public function set DocumentSource(String);

Description

Gets or sets the URL to an XML document to display in the **System.Web.UI.WebControls.Xml** control.

EnableViewState

Events

HasChildViewState

ID

IsTrackingViewState

NamingContainer

Page

Parent

Site

TemplateSourceDirectory

Transform

TrackViewState

Description

Gets or sets the **System.Xml.Xsl.XslTransform** object that formats the XML document before it is written to the output stream.

TransformArgumentList

TrackViewState

```
[C#] public XsltArgumentList TransformArgumentList {get; set;}
[C++] public: __property XsltArgumentList*
get_TransformArgumentList();public: __property void
set_TransformArgumentList(XsltArgumentList*);
[VB] Public Property TransformArgumentList As XsltArgumentList
[JScript] public function get TransformArgumentList() : XsltArgumentList;public
function set TransformArgumentList(XsltArgumentList);
```

Description

TransformSource

TrackViewState

```
[C#] public string TransformSource {get; set;}
[C++] public: __property String* get_TransformSource();public: __property void
set_TransformSource(String*);
[VB] Public Property TransformSource As String
[JScript] public function get TransformSource() : String;public function set
TransformSource(String);
```

Description

Gets or sets the URL to an XSL Transform document that formats the XML document before it is written to the output stream.

UniqueID

ViewState

ViewStateIgnoresCase

Visible

AddParsedSubObject

```
[C#] protected override void AddParsedSubObject(object obj);
[C++] protected: void AddParsedSubObject(Object* obj);
[VB] Overrides Protected Sub AddParsedSubObject(ByVal obj As Object)
[JScript] protected override function AddParsedSubObject(obj : Object);
```

Description

Render

```
[C#] protected override void Render(HtmlTextWriter output);
[C++] protected: void Render(HtmlTextWriter* output);
[VB] Overrides Protected Sub Render(ByVal output As HtmlTextWriter)
[JScript] protected override function Render(output : HtmlTextWriter);
```

Description

Renders the results to the o

EXEMPLARY COMPUTING SYSTEM AND ENVIRONMENT

Fig. 4 illustrates an example of a suitable computing environment 400 within which the programming framework 132 may be implemented (either fully or partially). The computing environment 400 may be utilized in the computer and network architectures described herein.

The exemplary computing environment 400 is only one example of a computing environment and is not intended to suggest any limitation as to the scope of use or functionality of the computer and network architectures. Neither should the computing environment 400 be interpreted as having any dependency or requirement relating to any one or combination of components illustrated in the exemplary computing environment 400.

The framework 132 may be implemented with numerous other general purpose or special purpose computing system environments or configurations. Examples of well known computing systems, environments, and/or configurations that may be suitable for use include, but are not limited to, personal computers, server computers, multiprocessor systems, microprocessor-based systems, network PCs, minicomputers, mainframe computers, distributed computing environments that include any of the above systems or devices, and so on. Compact or subset versions of the framework may also be implemented in clients of limited resources, such as cellular phones, personal digital assistants, handheld computers, or other communication/computing devices.

The framework 132 may be described in the general context of computer-executable instructions, such as program modules, being executed by one or more computers or other devices. Generally, program modules include routines, programs, objects, components, data structures, etc. that perform particular tasks or implement particular abstract data types. The framework 132 may also be practiced in distributed computing environments where tasks are performed by remote processing devices that are linked through a communications network. In a distributed computing environment, program modules may be located in both local and remote computer storage media including memory storage devices.

The computing environment 400 includes a general-purpose computing device in the form of a computer 402. The components of computer 402 can include, by are not limited to, one or more processors or processing units 404, a system memory 406, and a system bus 408 that couples various system components including the processor 404 to the system memory 406.

The system bus 408 represents one or more of several possible types of bus structures, including a memory bus or memory controller, a peripheral bus, an accelerated graphics port, and a processor or local bus using any of a variety of bus architectures. By way of example, such architectures can include an Industry Standard Architecture (ISA) bus, a Micro Channel Architecture (MCA) bus, an Enhanced ISA (EISA) bus, a Video Electronics Standards Association (VESA) local bus, and a Peripheral Component Interconnects (PCI) bus also known as a Mezzanine bus.

Computer 402 typically includes a variety of computer readable media. Such media can be any available media that is accessible by computer 402 and includes both volatile and non-volatile media, removable and non-removable media.

The system memory 406 includes computer readable media in the form of volatile memory, such as random access memory (RAM) 410, and/or non-volatile memory, such as read only memory (ROM) 412. A basic input/output system

(BIOS) 414, containing the basic routines that help to transfer information between elements within computer 402, such as during start-up, is stored in ROM 412. RAM 410 typically contains data and/or program modules that are immediately accessible to and/or presently operated on by the processing unit 404.

Computer 402 may also include other removable/non-removable, volatile/non-volatile computer storage media. By way of example, Fig. 4 illustrates a hard disk drive 416 for reading from and writing to a non-removable, non-volatile magnetic media (not shown), a magnetic disk drive 418 for reading from and writing to a removable, non-volatile magnetic disk 420 (e.g., a "floppy disk"), and an optical disk drive 422 for reading from and/or writing to a removable, non-volatile optical disk 424 such as a CD-ROM, DVD-ROM, or other optical media. The hard disk drive 416, magnetic disk drive 418, and optical disk drive 422 are each connected to the system bus 408 by one or more data media interfaces 426. Alternatively, the hard disk drive 416, magnetic disk drive 418, and optical disk drive 422 can be connected to the system bus 408 by one or more interfaces (not shown).

The disk drives and their associated computer-readable media provide non-volatile storage of computer readable instructions, data structures, program modules, and other data for computer 402. Although the example illustrates a hard disk 416, a removable magnetic disk 420, and a removable optical disk 424, it is to be appreciated that other types of computer readable media which can store data that is accessible by a computer, such as magnetic cassettes or other magnetic storage devices, flash memory cards, CD-ROM, digital versatile disks (DVD) or other optical storage, random access memories (RAM), read only memories (ROM), electrically erasable programmable read-only memory (EEPROM), and the like, can also be utilized to implement the exemplary computing system and environment.

Any number of program modules can be stored on the hard disk 416, magnetic disk 420, optical disk 424, ROM 412, and/or RAM 410, including by way of example, an operating system 426, one or more application programs 428, other program modules 430, and program data 432. Each of the operating system 426, one or more application programs 428, other program modules 430, and program data 432 (or some combination thereof) may include elements of the programming framework 132.

A user can enter commands and information into computer 402 via input devices such as a keyboard 434 and a pointing device 436 (e.g., a "mouse"). Other input devices 438 (not shown specifically) may include a microphone, joystick, game pad, satellite dish, serial port, scanner, and/or the like. These and other input devices are connected to the processing unit 404 via input/output interfaces 440 that are coupled to the system bus 408, but may be connected by other interface and bus structures, such as a parallel port, game port, or a universal serial bus (USB).

A monitor 442 or other type of display device can also be connected to the system bus 408 via an interface, such as a video adapter 444. In addition to the monitor 442, other output peripheral devices can include components such as speakers (not shown) and a printer 446 which can be connected to computer 402 via the input/output interfaces 440.

Computer 402 can operate in a networked environment using logical connections to one or more remote computers, such as a remote computing device 448. By way of example, the remote computing device 448 can be a personal computer, portable computer, a server, a router, a network computer, a peer device or other common network node, and so on. The remote computing device 448 is illustrated as a portable computer that can include many or all of the elements and features described herein relative to computer 402.

Logical connections between computer 402 and the remote computer 448 are depicted as a local area network (LAN) 450 and a general wide area network (WAN) 452. Such networking environments are commonplace in offices, enterprise-wide computer networks, intranets, and the Internet.

When implemented in a LAN networking environment, the computer 402 is connected to a local network 450 via a network interface or adapter 454. When implemented in a WAN networking environment, the computer 402 typically includes a modem 456 or other means for establishing communications over the wide network 452. The modem 456, which can be internal or external to computer 402, can be connected to the system bus 408 via the input/output interfaces 440 or other appropriate mechanisms. It is to be appreciated that the illustrated network connections are exemplary and that other means of establishing communication link(s) between the computers 402 and 448 can be employed.

In a networked environment, such as that illustrated with computing environment 400, program modules depicted relative to the computer 402, or portions thereof, may be stored in a remote memory storage device. By way of example, remote application programs 458 reside on a memory device of remote computer 448. For purposes of illustration, application programs and other executable program components such as the operating system are illustrated herein as discrete blocks, although it is recognized that such programs and components reside at various times in different storage components of the computing device 402, and are executed by the data processor(s) of the computer.

An implementation of the framework 132, and particularly, the API 142 or calls made to the API 142, may be stored on or transmitted across some form of computer readable media. Computer readable media can be any available media that can be accessed by a computer. By way of example, and not limitation, computer readable media may comprise "computer storage media" and "communications media." "Computer storage media" include volatile and non-volatile, removable and non-removable media implemented in any method or technology for storage of information such as computer readable instructions, data structures, program modules, or other data. Computer storage media includes, but is not limited to, RAM, ROM, EEPROM, flash memory or other memory technology, CD-ROM, digital versatile disks (DVD) or other optical storage, magnetic cassettes, magnetic tape, magnetic disk storage or other magnetic storage devices, or any other medium which can be used to store the desired information and which can be accessed by a computer.

"Communication media" typically embodies computer readable instructions, data structures, program modules, or other data in a modulated data signal, such as carrier wave or other transport mechanism. Communication media also includes any information delivery media. The term "modulated data signal" means a signal that has one or more of its characteristics set or changed in such a manner as to encode information in the signal. By way of example, and not limitation, communication media includes wired media such as a wired network or direct-wired connection, and wireless media such as acoustic, RF, infrared, and